

2026

EMERGENCY RESPONSE PLAN

For School of Biological Sciences,
Nanyang Technological University

at 60 Nanyang Drive, Singapore 637551

This emergency response plan is developed by the NANYANG TECHNOLOGICAL UNIVERSITY, SCHOOL OF BIOLOGICAL SCIENCES (NTU-SBS) and is to be handed over to SCDF responders in times of emergencies

YONG Sing Kwok
SBS Building & Facilities Management
Snr. Asst. Manager
17 Sep 2026



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TABLE OF RECORDS OF EMERGENCY PLAN REVISION

S/N.	Plan Version	Date of Approval	Name and Appointment of Approving Personnel	Signature of Approving Personnel	Remarks
1	1	01102009	Prof. Law Sai-Kit, Acting Chair, NTU-SBS		Draft
2	1	09072010	Prof. Law Sai-Kit, Acting Chair, NTU-SBS		
3	2	07092011	Prof. Mark Featherstone Chair, NTU-SBS		
4	3	12072013	Prof. Peter Preiser, Acting Chair, NTU-SBS		
5	3.1	15042014	Prof. Peter Preiser, Acting Chair, NTU-SBS		Amendments made to Annexes
6	3.2	05032015	Prof. Peter Preiser, Chair, NTU-SBS		Amendments made to ERT members; neighbouring companies; updates on inventory
7	3.3	18012016	Prof. Peter Preiser, Chair, NTU-SBS		Amendments made to ERT members; neighbouring companies; updates on inventory
8	3.4	17052017	Prof. Peter Preiser, Chair, NTU-SBS		Amendments made to ERT members; updates on inventory
9	3.5	29032018	Prof. Peter Preiser, Chair, NTU-SBS		Amendments made to Annexes
10	3.6	28062019	Prof. Lars Nordenskiöld, Chair, NTU-SBS		Amendments made to Annexes
11	3.7	29052020	Prof. Lars Nordenskiöld, Chair, NTU-SBS		Amendments made to Annexes
12	3.8	17052021	Prof. Lars Nordenskiöld, Chair, NTU-SBS		Amendments made to Annexes
13	3.9	10032022	Prof. Lars Nordenskiöld, Chair, NTU-SBS	SBS Chair's email approval dated 10 th March 2022.	Updates on Explosive Precursors details.
14	3.10	01 Nov 2022	Prof. Lars Nordenskiöld, Chair, NTU-SBS	SBS Chair's email approval dated 01 Nov 2022.	Amendments made to Annexes

S/N.	Plan Version	Date of Approval	Name and Appointment of Approving Personnel	Signature of Approving Personnel	Remarks
15	3.11	19 th Apr 2024	Prof. Kanaga Sabapathy	SBS Chair's email approval dated 19 th April 2024.	Updated PFM inventories & incl. summary HS list
16	3.12	24 th Sep 2025	Prof. Kanaga Sabapathy	SBS Chair's email approval dated 24 th Sep 2025.	Updated PFM inventories & incl. summary HS list
17	3.13	17 th Sep 2026	Prof. Kanaga Sabapathy	SBS Chair's email approval dated 17 th Sep 2026.	Updated PFM inventories & incl. summary HS list, appointment holders including SMC, SIC and SSC

TABLE OF RECORDS OF EMERGENCY EXERCISES CONDUCTED

S/N.	Date of Exercise	Name and Appointment of Conducting Personnel	Signature of Conducting Personnel	Comments
01	01102009	Tin Tun (SBS) Chan Seng Wah (ODFM) Chong Choi Wan (Keppel)		SBS Fire Drill 2009, Cooperated with the Fire department, ODFM
02	22102010	Tin Tun (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2010 Cooperated with the Fire department, ODFM
03	09122011	Tin Tun (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2011 Cooperated with the Fire department, ODFM
04	17122012	Arus Lau (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2012 Cooperated with the Fire department, ODFM
05	09122013	Ang Wei Kian (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2013 Cooperated with ODFM
06	10112014	Ang Wei Kian (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM) James R (FSM)		SBS Fire Drill 2014 Cooperated with ODFM
07	17112015	Ang Wei Kian (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM) James R (FSM)		SBS Fire Drill 2015 Cooperated with ODFM
08	21122016	Abdul Rashid Bin Mohammad Muzaki (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2016 Cooperated with ODFM
09	15122017	Lawrence Sie (SBS) Chan Seng Wah (ODFM) Md Aliffi (FSM)		SBS Fire Drill 2017 Cooperated with ODFM
10	10072018	Lawrence Sie (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2018 Cooperated with ODFM
11	18072019	Ray Chong (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Fire Drill 2019 Cooperated with ODFM
12	09112020	Ray Chong (SBS) Chan Seng Wah (ODFM) Nizham Keman (FSM)		SBS Emergency Table-Top Exercise 2020
13	15072021	Ray Chong (SBS) Nizham Keman (FSM)		SBS Emergency Table-Top Exercise 2021

14	30062022	Ray Chong (SBS) Nizham Keman (FSM)		SBS Fire Drill 2022 Cooperated with ODFM
15	27062023	Ray Chong (SBS) Nizham Keman (FSM)		SBS Fire Drill 2023 Cooperated with ODFM
16	16062024	Ray Chong (SBS) Nizham Keman (FSM)		SBS Fire Drill 2024 Cooperated with ODFM
17	17062025	Ray Chong (SBS) Nizham Keman (FSM)		SBS Fire Drill 2025 Cooperated with ODFM
18	10072026	Yong Sing Kwok (SBS) Irufaanullah HAJAMOHIDIN (FSM), Mohammad Huzairi (FSM)		SBS Fire Drill 2026 Cooperated with ODFM

EMERGENCY RESPONSE PLAN

1 AIM

The aim of this emergency response plan is to detail the various measures and operational actions that need to be undertaken by the NTU-SBS in the event of any fire or hazmat emergencies that occur within the installation, in order to minimize injury to personnel and damage to property.

2 SITUATION

2.1 INTRODUCTION

The School of Biological Sciences is one of the academic schools in Nanyang Technological University campus with a floor area of 30,000 square-meters. It offers undergraduate courses as well as postgraduate research programs for local and international students from all over the world. It contains teaching laboratories, research laboratories and core instrument facilities.

2.2 AREA OF OPERATIONS

2.2.1 LOCATION OF PREMISES AND ITS MAIN ACCESS ROAD

NTU-SBS is located at **60, Nanyang Drive, Singapore 637551**. The main access to SBS is from Nanyang Drive, which is accessible through both Pioneer North entrance and Jalan Bahar entrance to NTU campus. Please refer to Annex A for the site plan.

2.2.2 GENERAL DESCRIPTION OF THE SURROUNDINGS AND NEIGHBOURING PREMISES

The surroundings and neighbouring companies are as follows:

1. The School of Chemistry, Chemical Engineering and Biotechnology (CCEB)
2. The Research Techno Plaza (RTP) (a multi-tenanted research centre)
3. The Nanyang Auditorium (NA) (a multi-purpose event space)
4. The Singapore Centre on Environmental Life Sciences Engineering (SCELSE) (sharing the same building at the SBS North Wing on levels B3, B2, B1 and L1)
5. The Experimental Medicine Building (part of Lee Kong Chian School of Medicine-NTU)
6. The Research Support Building (RSB)

There is a fire engine access between SBS and the RTP. Fire assembly point is The QUAD which is between SBS and the Nanyang Auditorium. Please refer to **Annex A**.

2.2.3 LAYOUT OF PREMISES

The SBS main building consists of a main lobby in the middle and two wings on each side of the main lobby: South Wing, a four-storey building and North Wing, a five-storey with four basement level building. Two wings are connected by bridges at level 2, level 3 and level 4. An annex building of SBS is next to South Wing of SBS main building.

In addition, a link-bridge connects level 2 North Wing of SBS main building and the LKC-Medicine's Experimental Medicine Building, spanning across Nanyang Drive.

General administration office and classrooms occupy level 1 of North Wing. Traditional Chinese Medicine (TCM) clinic, College of Sciences (CoS) and Centre for Cross Economy (CCE) occupy level 1 of South Wing. Level 2 and above, of both wings, are occupied by Research Laboratories and Teaching Laboratories.

Basement 1 (B1) contains general store, waste storage rooms, 2 teaching wet laboratories, one computer lab and a canteen (Quad Café). Only North Wing of the building has basement 2 (B2), basement 3 (B3) and basement 4 (B4) with different occupiers, i.e., SCELSE. Fire Command Centre (FCC) is located at B4.

Research Support Building (RSB) is a two-storey stand-alone building on the other side of Nanyang Drive. An underground tunnel connecting RSB and SBS main building across Nanyang Drive.

Building / Level	Building Location	Activity
SBS Level 1	Main Foyer North Wing – 01n South Wing – 01s	• Function Hall • SBS General Office Undergraduate & Graduate Office • Classrooms • Tutorial Rooms • Study Lounge • SBS Clade Room • TCM Clinic & Office • College of Science Office (CoS) • Centre for Cross Economy (CCE)
Level 2	North Wing – 02n	• Student Lounge (ODFM)

Level 2 to Level 5	North Wing – 02n	• Teaching Laboratories • Research laboratories • Core instrument facilities
	North Wing – 03n, 04n, 05n	• Research Laboratories • Core instrument facilities
	South Wing – 02s, 03s, 04s	• Research Laboratories • Core instrument facilities
Basement 1	B1n	• General Store • Nuclear Magnetic Resonance (NMR) Laboratory • Waste Storage Room • Glassware Washing/Autoclave Room • Teaching Laboratories • Computer Teaching Laboratory
	B1n-M13	• Biobeam room (Under the charge of Animal Research Facility)
	B1n-10	• Café by the Quad
	B1 Car Park Corner (near to Exit/Entrance)	• Gas storage for Gas Cylinders & Liquid Nitrogen tanks

Location, storage and quantities of hazardous products, chemicals and gases

UN Class	Storage Location	Storage quantity
Class 2 – Combustible, non-combustible, compressed gases	Research Laboratories Teaching Laboratories Gas storage area under lock & key	2-6 cylinders per lab with safety bracket fixed to wall (for current use) Cylinders 52 kg (Flammable gases SCDF permit)
Class 3 & 4 Flammable liquid, Flammable solid, combustible	Research Laboratories Teaching Laboratories Common storage (B1n-S2) Glassware Washing (B1n-05)	Small quantity in flammable cabinet Flammable liquid 4351L , Petroleum 140L , Flammable solid 10KG (SCDF permit), in approved cabinets under lock & key
Class 5 Oxidizing agents, Source of Oxygen	Research Laboratories	Small quantity in safety cabinet
Class 6 Poison, Harmful, Infectious substance	Research Laboratories / Teaching Laboratories	Small quantity
Class 8 Health hazard, corrosive, irritating	Research Laboratories / Teaching Laboratories	Small quantity
Laboratory Reagents	Research Laboratories / Teaching Laboratories	NEA HS permit for SBS (Total): • Except NEA Annex I – 1000 litres • Except NEA Annex I – 150 kg • Acetic anhydride – 50 litres • Ammonia solution – 20 litres • Boron trichloride – 1 litre • Boron trifluoride – 5 litre • Boron tribromide – 0.5 litre • Ethylene dichloride – 5 litre • Hydrochloric acid – 300 litre • Mercuric chloride – 0.5 kg • Pentadecafluorooctanic acid, salts and related compounds – 1 kg • Sulphuric acid – 100 litres • Triethanolamine – 30 litres • Thionyl chloride – 2 litres

Description of Process Areas (including summary of the process and operations carried out)

Operations / activities	Process Areas
Handling of hazardous substances – strong acid, alkali, volatile substances that generate toxic fumes and dust	Fume Hood
Flammables, combustible organic solvents, inorganic solvents, etc.	Fume Hood
Handling of Explosive Precursors (EP) chemicals	Fume Hood
Handling of biological agents, media, inoculation, incubation, storage, decontamination, etc.	Biological Safety Cabinet (BSC), laminar flow hood, refrigerator, freezer, incubator, Autoclave
Use of special equipment – x-ray, radiation, ultra-violet, radioisotope	NMR, X-ray lab, Core facility with special equipment. Waste collection rooms
Use of compressed gases, use of extreme temperature liquid nitrogen, dry ice, freeze dryer, etc.	Research laboratories / core facility / Teaching laboratories

2.3 SPECIAL HAZARD AND RISK ASSESSMENT

Hazardous substances such as chemicals, biological agents, radioactive materials and compressed gases are used in teaching and research laboratories in SBS-NTU.

The following areas are identified as high-risk areas as large volumes of hazardous substances are being stored there.

Hazards	Main Areas
Fire	Common flammable storage at B1n-13
Explosion	Compressed gas cylinder storage at SBS-B1s Car park corner, Autoclave room (high pressure and temperature at SBS-B1n-05
Infection & Contamination (Biological & Chemical)	Waste storage room at SBS-B1n-S2
Radiation	• NMR at SBS-B1n-04 • Bio beam room at SBS-B1n-M13 (Under the charge of Animal Research Facility) • Radioactive waste collection area at SBS-B1n-10

Descriptions of all possible scenarios

Emergency conditions	Scenario	Control measures
Fire Emergency	• Flammables and open flame • Chemical reaction • Electricity overload	• Proper use and storage of flammables • Use of fume cupboard • Practice electrical safety • Training and awareness • Evacuation plan and fire drill
Medical Emergency	• Splash of chemicals to eyes • Cuts, abrasion, skin contacts • Thermal / chemical burn • Inhalation of toxic vapour	• Use of appropriate Personal Protection Equipment (PPE) and engineering controls • Training and awareness • Conduct risk assessments • First aid kit provision
Spill (chemical / radioactive/ biological/ waste)	• Spill during experiment or transportation	• Proper use and storage • Safe transport of hazardous substances • Use of secondary containment • Training and awareness • Spill kit provision • Spill management team
Explosion	• Centrifuge / autoclave • Chemical reaction • Improper handling or storage of compressed gas cylinders	• Standard Operating Procedure (SOP) • Equipment operation manual • Regular servicing and maintenance of equipment • Proper storage and handling of compressed gas cylinders • Training and awareness

3 EXECUTION

3.1 CONCEPT OF OPERATIONS

The emergency operation to be conducted in phases is as follows:

Phase		Actions
I		To notify SCDF and SPF immediately for all emergencies, fire or mass casualty (10 or more casualties) incidents. To notify other related agencies (NEA, MOM, etc.) and surrounding companies if necessary.
II	a.	Company personnel to conduct evacuation operations.
	b.	Company personnel to initiate emergency actions to mitigate or contain the emergency and coordinate with SCDF personnel upon SCDF's arrival.
III		To clean up / decontaminate and resume normal operations.

3.2 EMERGENCY ACTIONS TO BE TAKEN

3.2.1 (PHASE I) PROCEDURE TO NOTIFY SCDF, SPF. TO NOTIFY OTHER RELATED AGENCIES AND SURROUNDING COMPANIES

Initial assessment and emergency response will be carried out by the SBS personnel. In situations of emergency beyond own control, relevant government agencies: SCDF, SPF, NEA, etc. will be notified.

In the events of emergency, the Chair, the Site Main Controller (SMC), the Liaison Officer (LO), School Safety Committee (SSC), the Safety Manager, Company Emergency Response Team (CERT), Emergency Coordination Team (ECT), the University Fire Safety Manager (UFSM), ODFM, and OHS shall be notified.

During Office Hour

- Notify SMC / LO / CERT / ECT / SSC / School Management
- Notify the Campus Security, OHS and ODFM
- Activate fire alarm. The NTU Emergency (6790 5200), University Fire Safety Manager (UFSM) and the Campus Security will be alerted.
- The LO / UFSM shall notify the SCDF / SPF after initial assessment of the emergency situation.
- The LO / UFSM shall work with the SCDF Ground Commander.

After Office Hour

- Notify NTU Emergency 6790 5200 (24 hours)
- Activate Fire alarm.
- Notify the SCDF by the UFSM / ODFM
- Notify the SPF by the Campus Security

In the event of any incident with probability of escalation beyond the boundaries of the SBS premises, the neighbouring departments will be notified by LO / ERT upon confirmation and order by SMC and/or SCDF/ SPF. The information of the neighbouring departments is as below:

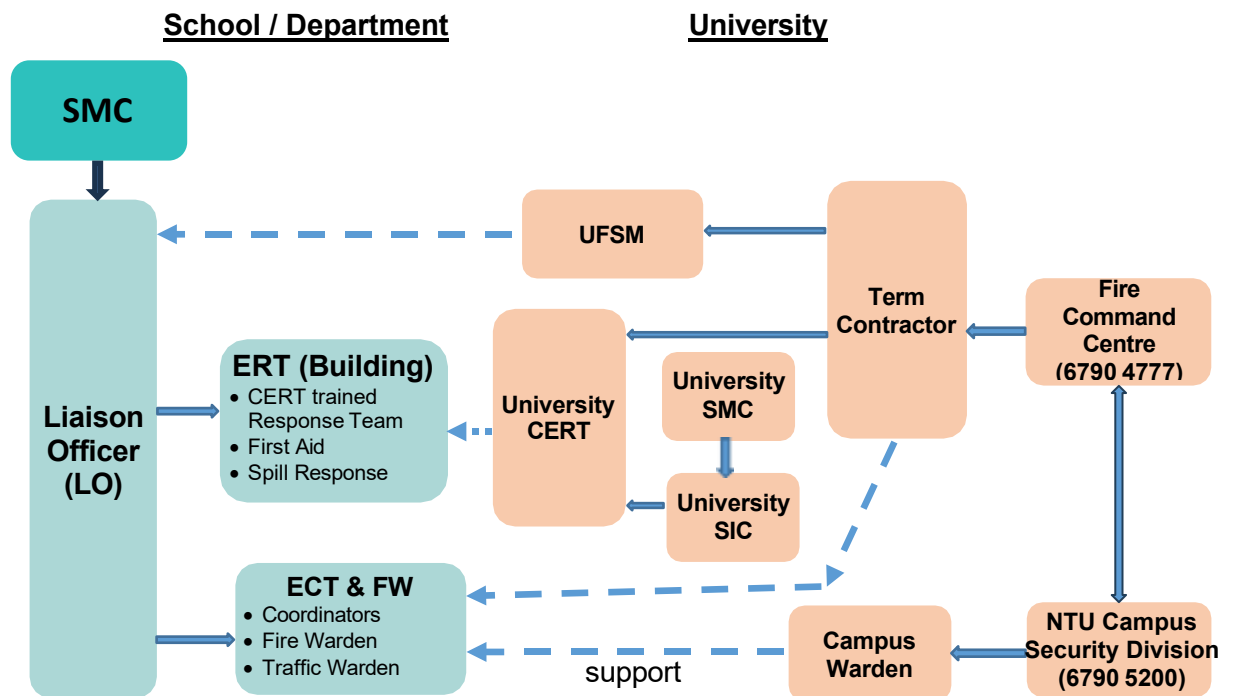
No.	Department	Contact Person	Contact Number	Approximate Working Population	
				Office Hours	After-office
1	School of Chemistry, Chemical Engineering and Biotechnology (CCEB)	Mr. Lestor Wong Wen Keen	6908 1986	230	80
2	Singapore Centre on Environmental Life Sciences Engineering (SCELSE)	Dr. Krager Koh Kai-Shyang	6592 7560	150	20
3	Research Techno Plaza (RTP)	Mr. Nizham Keman	9667 0222/ 6790 5200	250	30
4	Centre for Cross Economy (CCE)	Dr. Song Yewon	8958 3067	10	4
5	Nanyang Auditorium	Mr. Nizham Keman	9667 0222/ 6790 5200	40	10
6	Experimental Medicine Building – Lee Kong Chian School of Medicine (LKC-SoM)	Mdm Chitra Devi D/O Subramaniam	6592 3209	770	250
7	Experimental Medicine Building – NTU Institute of Structural Biology (NISB)	Dr. Saw Wuan Geok Dr. Tran Bich Ngoc Ann	9159 9325 6908 2219	70	20
8	Research Support Building (RSB)	Mr. Chi Beng Huat	6904 1307	60	10

As for SBS, the working population during office hours is approximately 500 and that after office hours including weekends and public holidays is approximately 35.

Other government agencies such as NEA, MOH, MOM, etc., will also be notified, where relevant, by LO / ERT with advice from Office of Health, Safety and Emergency, NTU.

3.2.2 (PHASE II a) PROCEDURE FOR EMERGENCY EVACUATION

Emergency Response Structure



Evacuation Procedures

When the Fire Alarm activates (Approximately 3 minutes)					
Liaison Officer (LO)	CERT	ECT	Fire Warden	PWD/PWD custodian	Staff / Students
Contact 6790 5200 and confirm information. Communicate with CERT, ECT & Fire Warden.	• First Aiders get ready for evacuation and first aid provision. • CERT members / Fire Wardens check Fire point, get evacuation list and ready to assist evacuation. • CERT members also to get ready to the CERT PPE donning area.			PWD to hold on to his/her mobile phone. Both PWD and PWD Custodian should try to contact each other, get ready for evacuation	Take off PPE and get ready to evacuate
Evacuation Announcement made followed by Second Alarm activated					
Liaison Officer (LO)	CERT	ECT & Fire Warden	First Aiders	PWD/PWD custodian	Staff / Students
Go to Assembly Area (The QUAD) immediately and take orders from the University Fire Safety Manager (UFSM) and communicate with the SMC.	Check areas and fight fire without taking risks. Start rescue and evacuation.	Evacuate everyone and proceed to assembly area via exits.	Attend to the injured, if any and assist the injured to assembly area. Arrangements to be made for attending to the injured.	Move (if possible) to the PWD Holding Point or Assembly Area or Locations away from the building. Contact campus Security Division (CSD) at 6790 5200 for assistance.	Follow instructions from CERT/ ECT/ Fire Warden and proceed to the assembly area
At the assembly area, take orders from UFSM. Liaison Officer to assist the UFSM					
Return to workplace after the emergency has been mitigated or investigated. This is usually confirmed by the UFSM.					

3.2.3 (PHASE II b) EMERGENCY ACTIONS TO MITIGATE OR CONTAIN THE EMERGENCY

3.2.3.1 Emergency Shutdown Procedure

Site Main Controller (SMC) coordinates with the Incident Manager from external emergency organizations (SCDF, SPF, NEA, etc.) and works closely for consequence management activities. He authorizes the shutdown of operation in the installation and gives all instructions required.

Considering any incident or problem, that compromises the safety or the integrity of the school, the facility / laboratory will be shut down until safety conditions are sustained.

The Chair / SMC / the LO work with the Incident Manager in determining the termination of emergency and authorizing re-entry upon complete recovery.

The facility can resume normal operations if emergency situations will not compromise safety issues and appropriate clean up procedures have been carried out. Decontamination procedures may be required for laboratory before resuming operations.

3.2.3.2 Fire Fighting, Hazmat Monitoring, Containment and Rescue

1. When the fire alarm is activated, the Campus Security announces the location of fire indicated on the alarm control panel.
2. The LO / SSC / UFSM / Safety Manager shall assess the situation and declare the appropriate Alert Level to all CERT and ECT.
3. The LO / SSC assigns CERT Assembly Area (CERT AA = The QUAD) depending on the location.
4. Other CERT/ ECT members gather at AA and prepare to receive further instructions to fight fire and rescue casualty.
5. Activation of certain fire-fighting facilities has been pre-allocated.
6. The CERT will use fire extinguishers located.
7. Breathing Apparatus (BA) sets must be used for any attempt to enter the scene for emergency operation (i.e. Cryogenic Electron Microscopy Facility) or rescuing casualty. The rescue must be done in pairs, and the BA sets should be used only once.

8. One CERT / ECT member will be assigned as Recorder to take note of the number of employees entering the emergency scene.
9. All casualties are to be sent for the First Aid treatment as soon as possible, using stretchers, if necessary.
10. On arrival of the SCDF, the LO / SSC / UFSM / Safety Manager shall hand over to the Duty Officer and brief him about actions taken.
11. The LO / SSC / UFSM / Safety Manager shall provide assistance to the SCDF as necessary until the emergency is over.

3.2.4 (PHASE III) TO CLEAN UP / DECONTAMINATE AND RESUME NORMAL OPERATIONS.

3.2.4.1 Clean up Operations

1. The LO / SSC / Safety Manager shall assess the damage of the affected areas in terms of estimates for equipment, machinery, personnel, injured, material and property losses.
2. The CERT / ECT / responders will perform necessary clean up procedures. Appropriate PPE must be applied.
3. The LO / SSC / Safety Manager shall submit the necessary report on the incident to the Chair and related university management departments.
4. The LO / SSC / Safety Manager shall notify SCDF / NEA / SPF/ MOM/ MOH accordingly.

3.2.4.2 Other Emergency Plans

Handling Spills

(Details on Spill Management in **NTU Safety Manual for Chemical Work** available at: [NTU Safety Manual for Chemical Work](#) requires login credential)

1. The first person who discovers the emergency shall try to locate the spillage kit and contain the spill without taking undue risk.
2. Inform the supervisor / In-charge and contact the LO / SSC / Safety Manager and HS Permit Holder to view the scene.
3. The LO shall determine the severity of spillage and take one or more of following actions:
 - Alerting Spill Management Team for proper clean-up activities
 - Notify Pollution Control Department of the NEA (**1800-225 5632**)
 - Notify the SCDF (995)
4. After donning appropriate PPE recommended in the Safety Data

Sheet (SDS), neutralize chemical where appropriate and apply cleaning up procedures.

5. Arrangements shall be made to dispose of all contaminated materials through Toxic Industrial Waste Collectors
 - ECO Special Waste Management Pte Ltd (6517 3653)
 - Asia Medical Enviro Services Pte Ltd (*Previously named Sembcorp Environment Pte Ltd*) (6861 2874)
 - Modern Asia Environmental Holdings (*Previously named Technochem Environmental Complex Pte Ltd*) (6862 3130)

Medical Emergency

1. The first person who discovers the emergency shall apply first aid if he/she is trained.
2. Contact the LO / CERT / ECT / Safety Manager. First Aiders shall provide basic treatments. Stretcher or wheelchair is available.
3. If seeking medical doctor or sending the victim to the hospital is needed, the LO / SSC / Safety Manager is to seek approval from the Chair.
4. Bring the victim to NTU Medical Centre for treatment if required.
5. The LO / SSC / Safety Manager shall assess the situation and determine whether to call Ambulance / SCDF or to arrange transport to the hospital.

Hospital	Address	Contact
Raffles Medical Group, NTU	University Health Service Building 36 Nanyang Avenue Singapore 639801	6793 6828
Ng Teng Fong General Hospital	1 Jurong East Street 21 Singapore 609606	6908 2222
National University Hospital	5 Lower Kent Ridge Road Singapore 119074	6908 2222

3.3 GROUPING AND TASKS

Category	Committee / Team	Role & Responsibility
1	School Safety Committee (SSC)	Overall Safety Measures
2	Site Main Controller (SMC)	Overall-In-Charge of the emergency response operations
3	Liaison Officer (LO)	Site Incident Controller (SIC)
4	School Safety Officer	Advisory and Assistance
5	CERT members	Front Line Responders - Fire Fighting, Spill
6	ECT member	Rescue & Treatment Communication & Referral
7	Fire Warden	Source of fire, evacuation
8	NTU Fire Safety	Fire Safety Manager, cooperation & coordination with term contactors (Managed by ODFM)
9	First Aiders, OFA	First Aid treatment Referral to NTU Medical Centre / Hospital
10	Campus Security Division	Security cooperation

3.4 KEY PERSONNEL EMERGENCY CONTACT NUMBERS

Refer to Annexes.

4 SERVICE SUPPORT

4.1 FIXED INSTALLATIONS

4.1.1 FIRE / HAZMAT PROTECTION FACILITIES

4.1.1.1 Detection System

Fire Command Centre

Levels	Fire Alarm Panel	Location
SBS-B4n-01 (Basement 4)	Fire Command Centre (FCC)	Main Alarm Panel with PA / Intercom system
North Wing	Sub-Alarm Panel (SAP) all levels (SBS-B4n to SBS-05n)	SAP-B4-1 SAP-B3-1 SAP-B2-1 SAP-B1-1 SAP-L1-1 SAP-L2-1 SAP-L3-1 SAP-L4-1 SAP-L5-1
South Wing	Sub Alarm Panel (SAP) all levels (SBS-B1s to SBS-04s)	SAP-B1-2 SAP-L1-2 SAP-L2-2 SAP-L3-2 SAP-L4-2

4.1.1.2 Extinguishment System

Fire Suppression System

N	Installation / Equipment	Availability	Location
1	Sprinkler	Yes	Entire building
2	Inert gas	Yes	Data server room (SBS-01s)
3	Pump room	Yes	SBS-B4n-F11
4	Water tank	Yes	SBS-B4n-11
5	Fire extinguishers / blanket	Yes	At all levels
6	Smoke detectors	Yes	At all levels
7	Hose reel	Yes	At all levels

Rising Mains (Dry Riser)

N	Location of Inlet	Inlet No.	Service
1	Level 1, Staircase 1	Breeching 1-5	7
2	B4N, Staircase 2	Breeching 2-5	10
3	B4N, Outside of Sprinkler Plant	Breeching 3-5	7
4	Level 1, Staircase 2	Breeching 4-5	4
5	Level 1, Staircase 5	Breeching 5-5	6

4.1.2 SAFETY AND FIRST AID EQUIPMENT

First aid kits are available inside the laboratories and workplaces.

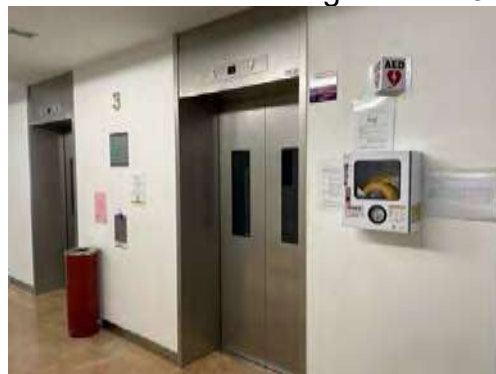
Eye wash stations, safety shower, chemical spill kit and biological spill kit are also available inside the laboratories.

No.	Item	Total Qty	Location
1	First Aids Box (B)	8	Core facility room near main door to Laboratory Areas at all levels; General Store and B1
2	First Aid Box (C)	3	Teaching Labs at level 2 (02n) Teaching Labs at B1n General Office (01n)
3	Stretcher	1	General Office counter (01n)
4	Wheelchair	1	General Office MR4
5	Safety Shower	1 each	Every laboratory
6	Eye wash station	1 each	Every Laboratory
7	Automated External Defibrillator (AED)	2	SBS North Wing at Level 1 SBS South Wing at Level 3

AED - SBS North Wing at Level 1



AED - SBS South Wing at Level 3



4.1.3 OTHER PROTECTION AND GENERAL EQUIPMENT

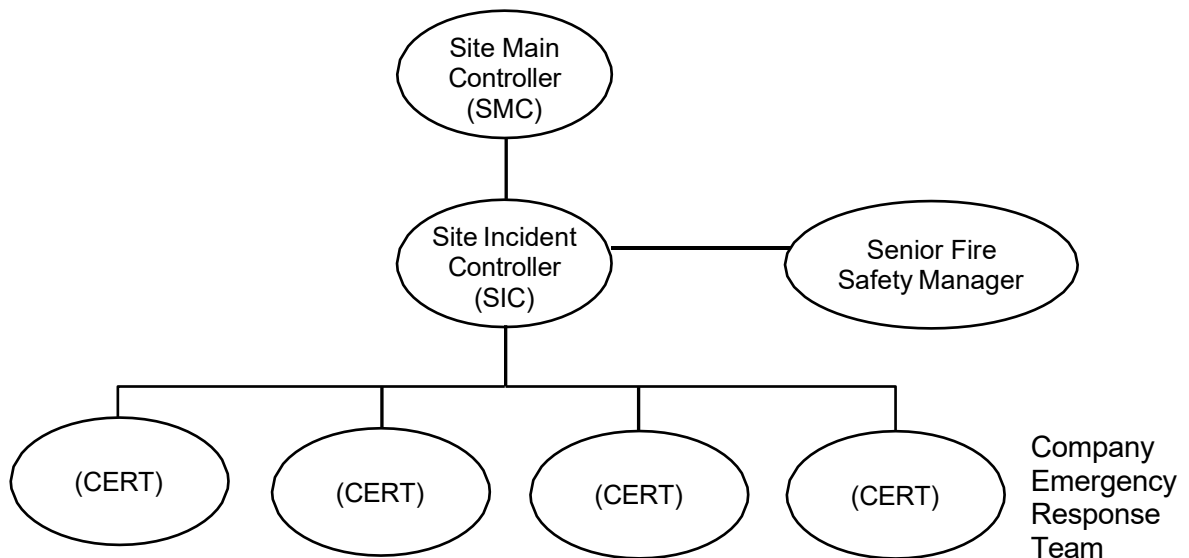
Mitigations & Containment System

No.	Containment system	Locations
1	Fume Hoods	Research Laboratories at all levels
2	Biological Safety Cabinets	Research Laboratories at all levels
3	Security Doors	Doors with Card Access

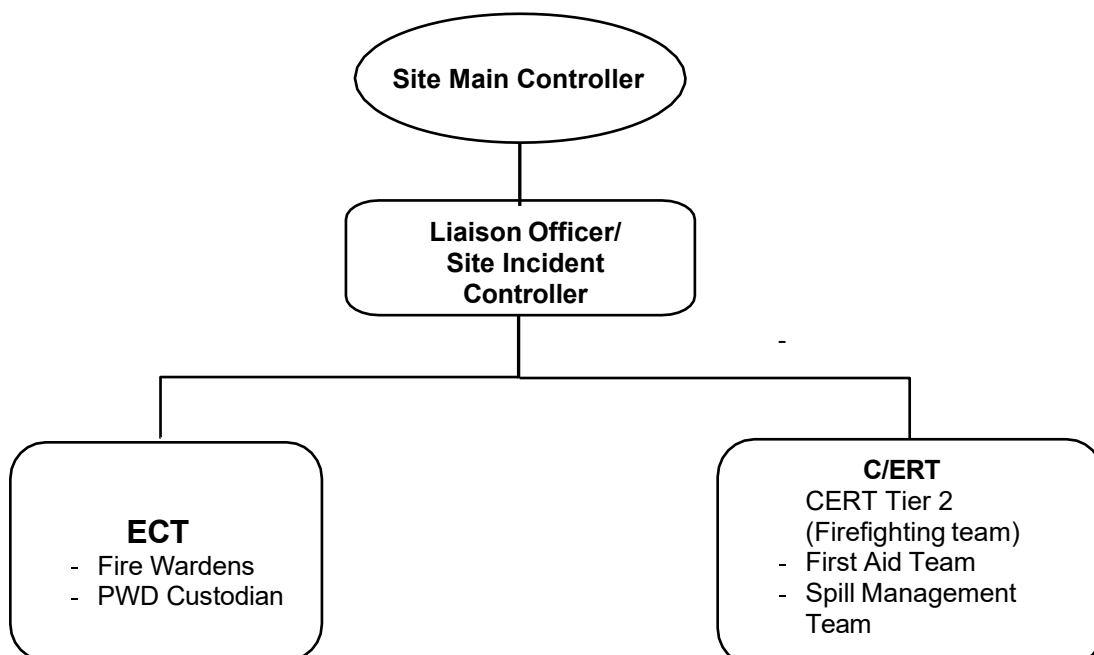
5 COMMAND AND SIGNAL

This section describes the command and communication structure of the company during an emergency.

5.1.1 NTU University CERT Organization Structure



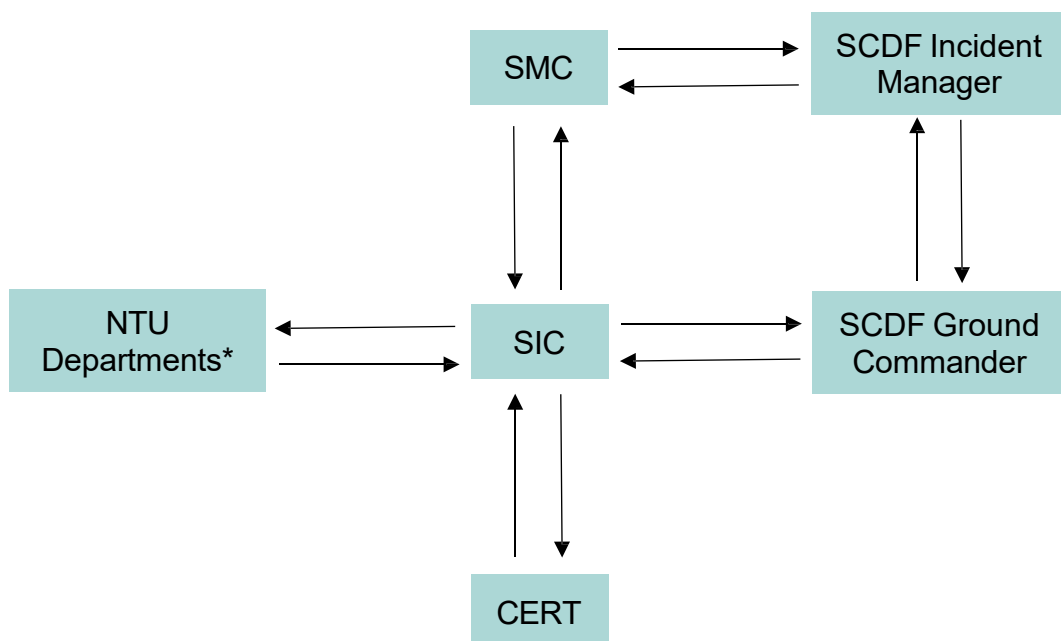
5.1.2 SBS Emergency Response Organization Structure



6 PLAN REVIEW & MAINTENANCE

6.1 COMMUNICATION OF PLAN

Communication during operation between SMC, SIC, ERT members, University departments and external organization (SCDF).



* Denotes Campus Security, Fault Reporting Centre

NB:

The HS permit holder and EP licensee shall work with SIC in communication with NEA, SCDF, and SPF for any incident involving chemicals and explosive precursors.

6.2 TABLETOP EXERCISE

Tabletop exercise is carried out as an emergency preparedness that is based on different scenarios. All Emergency team members participate in this exercise. During the conduct of the exercise, all possibilities and findings are reviewed and solutions where required, are discussed.

6.3 CONDUCT OF EMERGENCY DRILL

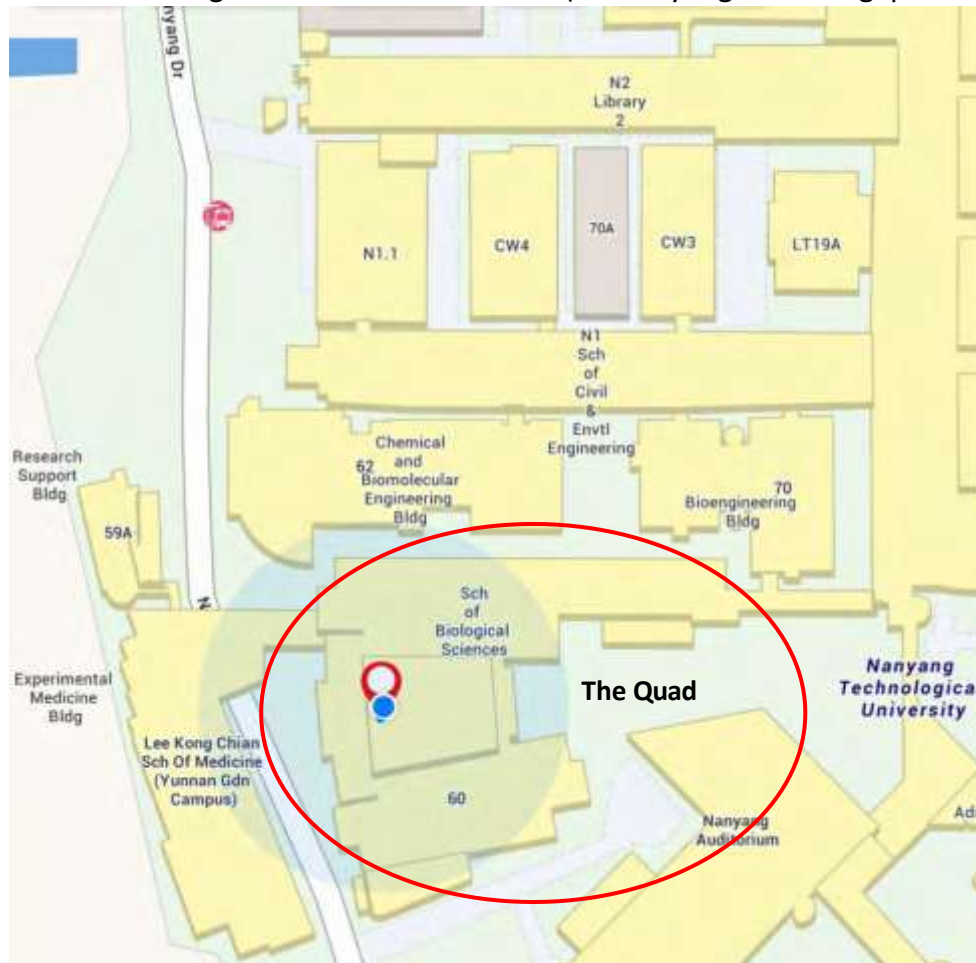
Fire drills shall be carried out **at least once a year** for every building during full occupancy load. Additional drills related to other forms of emergencies, e.g. spills should also be conducted once every 2 years. All drills shall be documented by the school and the ODFM.

6.4 REVIEW OF HAZARD RISK ASSESSMENT

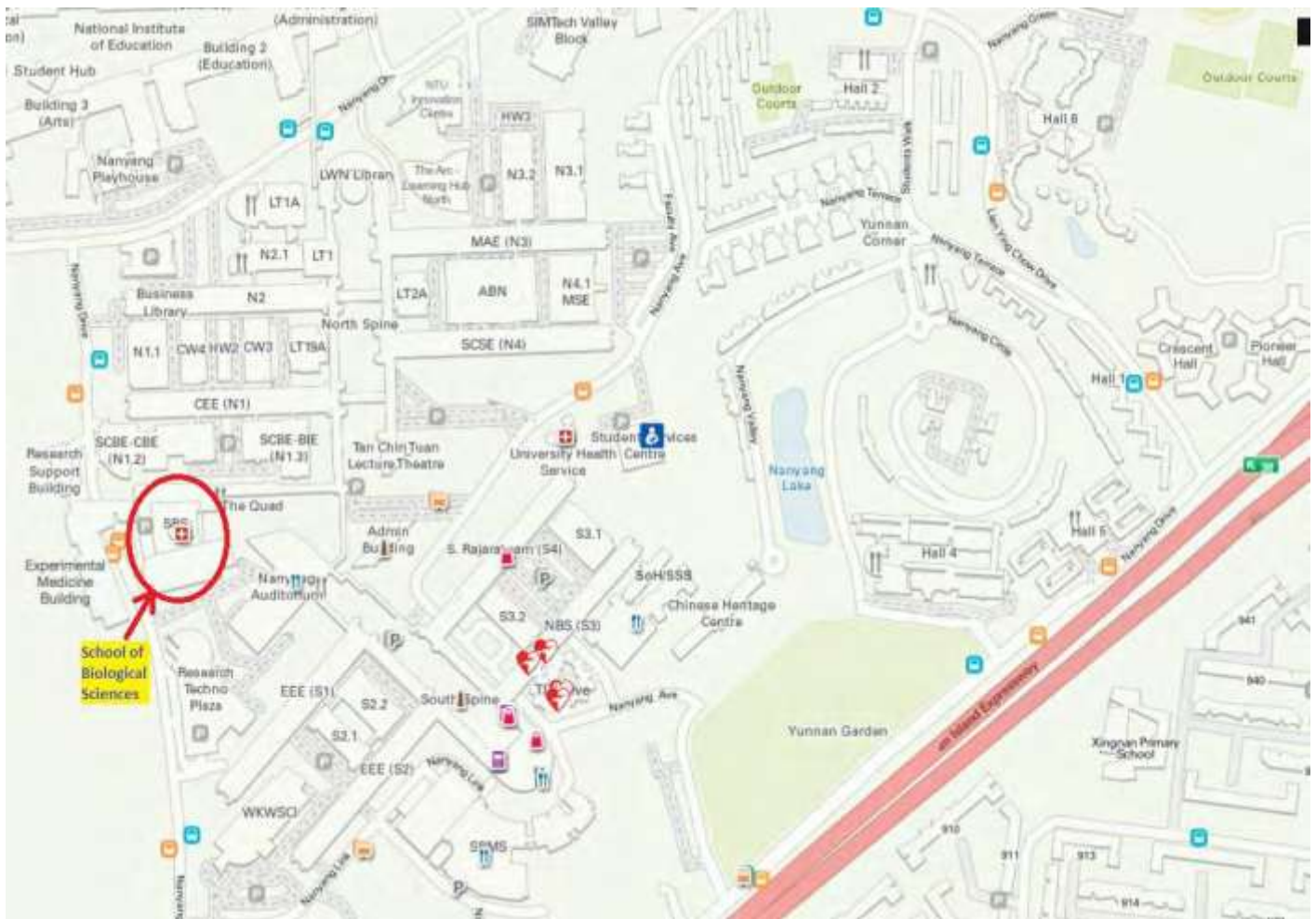
To tabulate key findings from the regular review of Hazard /Risk assessment for future reference and improvement. Gaps in the current plan should be identified and addressed.

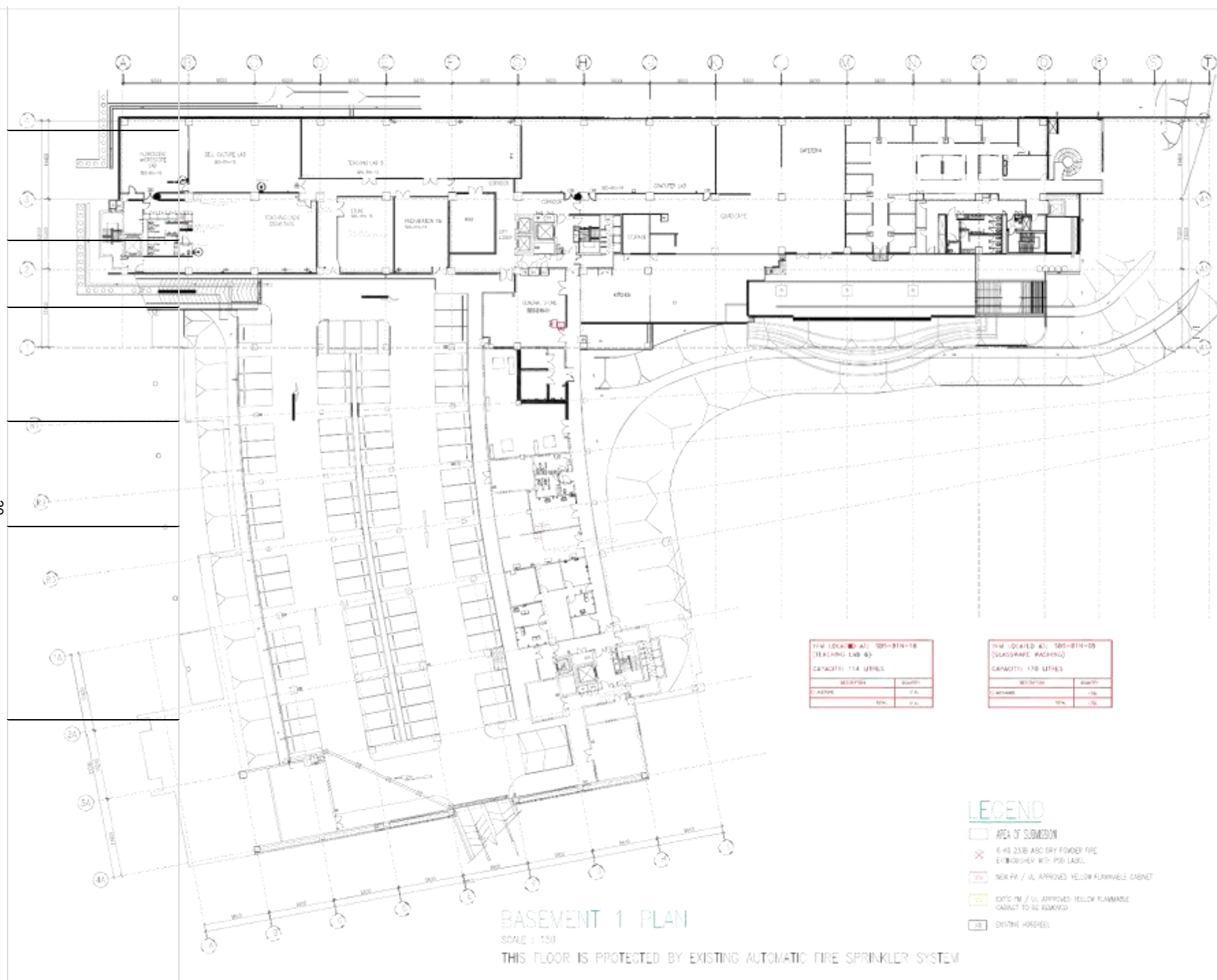
Company Site Plan

School of Biological Sciences & The Quad (60 Nanyang Drive Singapore 637551)



Company Layout Plan





OF DISORDERS.

1. The Fire Safety Act, No. 2009/1, of 2009, being a qualified person, under the Fire Safety Act, hereby certify that the fire safety works in question at these sites have been designed in accordance with the provisions of the Fire Code 2010, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 27 of the Fire Safety Act.

I, Ng Wai Ming, hereby certify that the existing fireproof material storage has been designed in accordance with the provisions of SS 532:2015 & SS41:2015.



QUALITY PHYSICS (2005) :

122, LORONG 2, TOA PAYOH
#02-07
Singapore 310122
TEL : 6181 0562
FAX: 606-55 : sgwms@bnpul.com

QUALIFICAZIONE PERSONA (Anno):



LOVE & ASSOCIATES
CONSULTING MECHANICAL & ELECTRICAL ENGINEERS

LOVE & ASSOCIATES
602 BROAD ROAD, SUITE 100, OAKDEN, MAE, TOWNSHIP
SINGAPORE 110000
TEL: 63671000 Fax: 63671004
EMAIL: ALOVE@SINGAPORE.COM

advertising.

NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF BIOLOGICAL SCIENCES
60 NANYANG DRIVE
SINGAPORE 639091

PROJECT Title:

PROPOSED ADDITIONS &
ALTERATIONS TO EXISTING
FLAMMABLE MATERIAL STORAGE AT
NANYANG TECHNOLOGICAL
UNIVERSITY, SCHOOL OF BIOLOGICAL
SCIENCES AT 80 NANYANG DRIVE,
SINGAPORE 637561

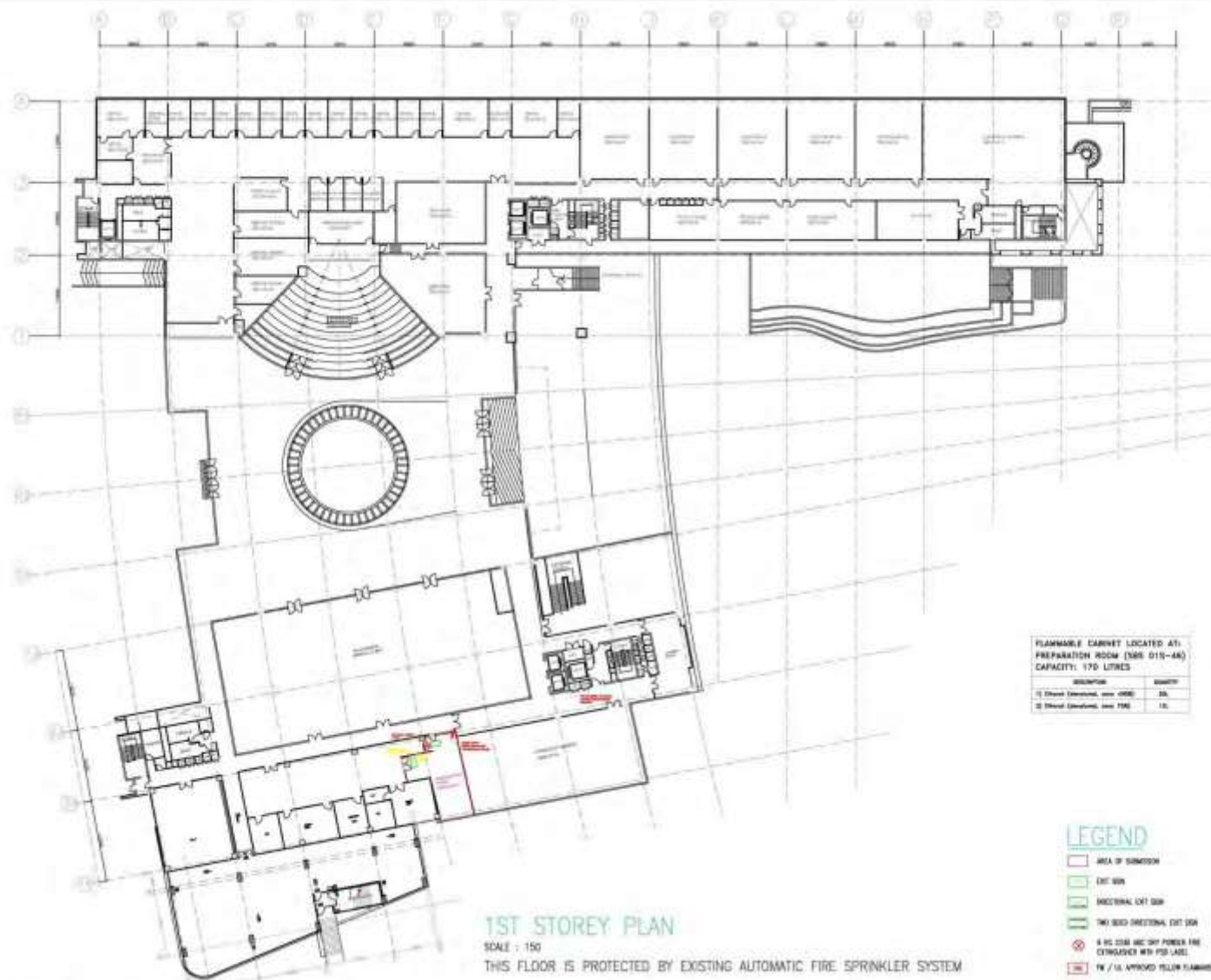
detached 13.6%

BASEMENT 1 LAYOUT PLAN

FLOWNR :
 SCALE : FS-5048H DATE : APR 2021
 CPMNR : Avg DIEDGL : USA

ORANG NO : LA / NCU-SBS / BP / 002

2015. PREVIOUS ARTICLES CONTAINED IN THIS JOURNAL HAVE BEEN REPRODUCED BY PERMISSION OF THE AUTHOR(S) IN THE JOURNAL OF THE AMERICAN SOCIETY OF CLIMATE ENGINEERS.



FLAMMABLE CABINET LOCATED AT: PREPARATION ROOM (NBS 0115-4A) CAPACITY: 170 LITRES	
DESCRIPTION	QUANTITY
1) Ethanol (Anhydrous), conc 99.9%	20
2) Ethanol (Anhydrous), conc 70%	10

NOTES:

1. All work shall be done in accordance with the Fire Code 2012. The Fire Code 2012 and the regulations made thereunder, the relevant codes of practice and design standards, and the requirements of relevant code under IT of the Fire Code 2012.

2. All work shall be done in accordance with the Fire Code 2012 and the regulations made thereunder, the relevant codes of practice and design standards, and the requirements of relevant code under IT of the Fire Code 2012.

DESIGNED BY:
JTP ARCHITECTS
2 SECOND AVENUE
SINGAPORE 266052
TEL : 64646476 / FAX : 64676302
Email : jtparchitects@jtparchitects.com.sg

DESIGNED BY:
LORIC & ASSOCIATES
CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
LORIC & ASSOCIATES
320 ROYAL ROAD #10-01 GOLDEN MILE TOWER
SINGAPORE 268679
TEL : 63420381 FAX : 63420374
EMAIL : loricon@loricon.com.sg

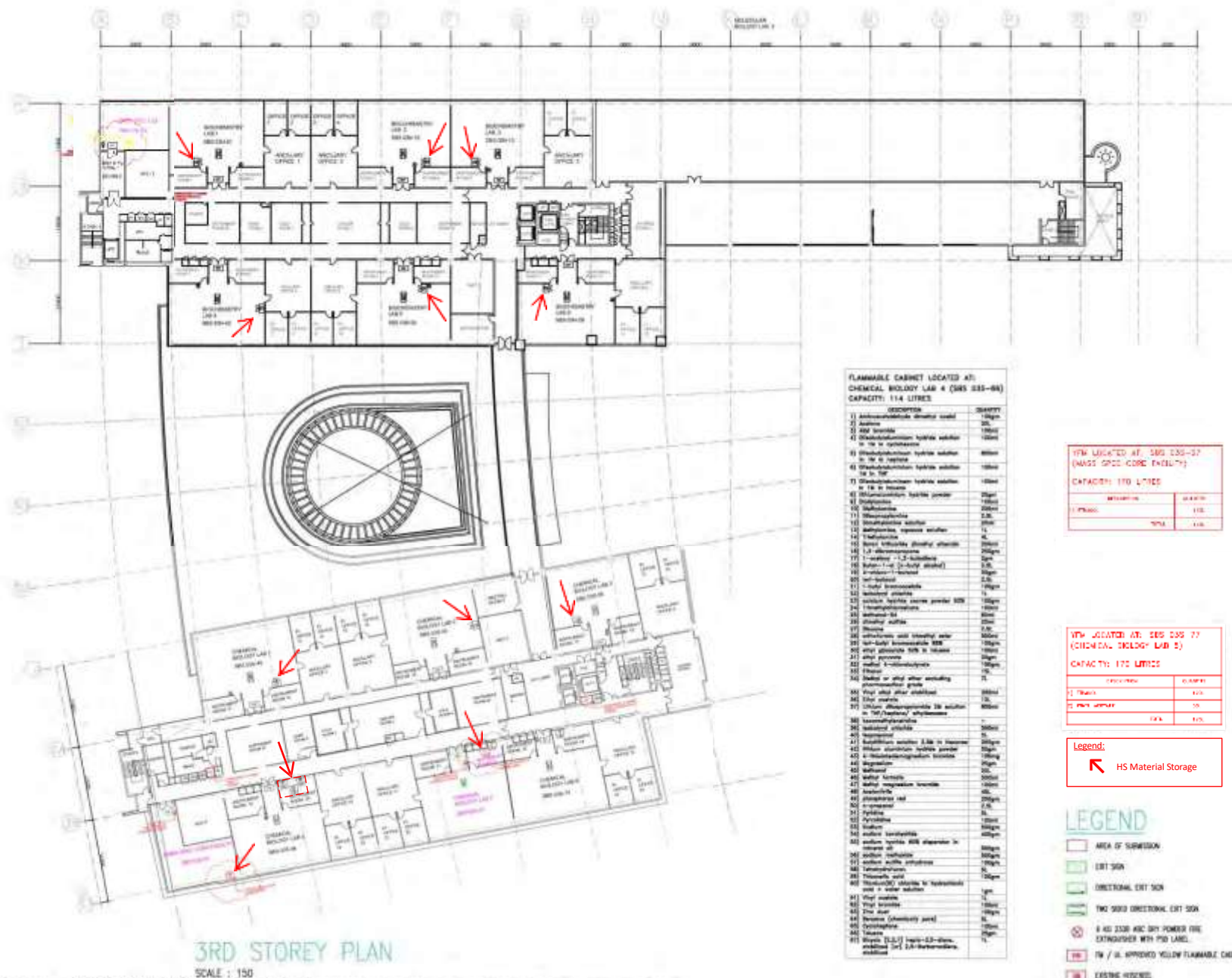
APPROVED BY:
NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF BIOLOGICAL SCIENCES
40 NANYANG DRIVE
SINGAPORE 637551

PROJECT TITLE:
PROPOSED ADDITIONS & ALTERATIONS TO EXISTING FLAMMABLE MATERIAL STORAGE AT NANYANG TECHNOLOGICAL UNIVERSITY, SCHOOL OF BIOLOGICAL SCIENCES AT 40 NANYANG DRIVE, SINGAPORE 637551

DRAWING TITLE:
1ST STOREY LAYOUT PLAN

REVISION:	
NO.	DATE
1	2017-05-01
2	2017-05-01
3	2017-05-01
4	2017-05-01
5	2017-05-01
6	2017-05-01
7	2017-05-01
8	2017-05-01
9	2017-05-01
10	2017-05-01

NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FIRE CODE 2012 AND THE REGULATIONS MADE THEREUNDER, THE RELEVANT CODES OF PRACTICE AND DESIGN STANDARDS, AND THE REQUIREMENTS OF RELEVANT CODE UNDER IT OF THE FIRE CODE 2012.



OF CONSTRUCTION

I, Jitendra Singh, hereby certify that the existing fire alarm system is in accordance with the provisions of the Fire Code 2011, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 27 of the Fire Safety Act.

I, Jitendra Singh, hereby certify that the existing fire alarm system is in accordance with the provisions of the Fire Code 2011, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications or waivers under section 27 of the Fire Safety Act.

QUALIFIED PERSON (NOM)

JTP ARCHITECTS

2 SECOND AVENUE
Singapore 266852
TEL : 94584676 FAX : 64676385
Email: morphous@jtparchitects.com.sg

QUALIFIED PERSON (SME)

LOKE & ASSOCIATES
CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
LOKE & ASSOCIATES
8001 BEACH ROAD #01-05 GOLDEN MILE TOWER
SINGAPORE 109908
TEL: 63963042 FAX: 63963044
EMAIL ADDRESS: loke@lokeassociates.com.sg

APPROVAL

NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF BIOLOGICAL SCIENCES
60 NANYANG DRIVE
SINGAPORE 637551

PROJECT FILE

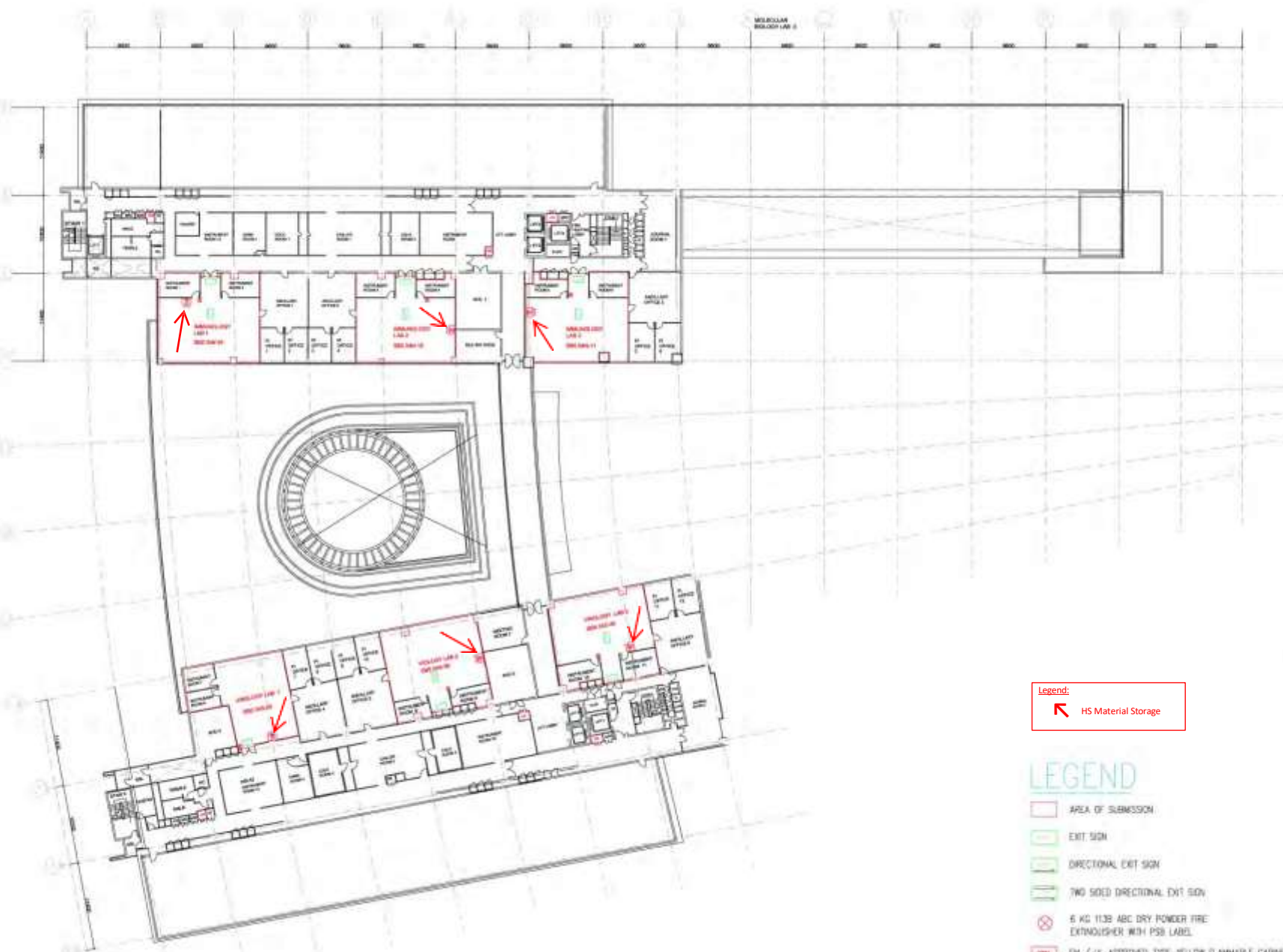
PROPOSED ADDITIONS & ALTERATIONS TO EXISTING FLAMMABLE MATERIAL STORAGE AT NANYANG TECHNOLOGICAL UNIVERSITY, SCHOOL OF BIOLOGICAL SCIENCES AT 60 NANYANG DRIVE, SINGAPORE 637551

DRAWING FILE

3RD STOREY LAYOUT PLAN

FILENAME: 3RD STOREY LAYOUT PLAN
SCALE: AS SHOWN DATE: MAY 2017
DRAWN: JTP ARCHITECTS CHECKED: JTP ARCHITECTS
DRAWING NO: 1A / NTU-SBS / 01 / 004

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4TH STOREY PLAN

SCALE : 1:50

THIS FLOOR IS PROTECTED BY EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM

Legend:

HS Material Storage

LEGEND

- AREA OF SUBMISSION
- EXIT SIGN
- DIRECTIONAL EXIT SIGN
- TWO SIDED DIRECTIONAL EXIT SIGN
- 5 KG 113B ABC DRY POWDER FIRE EXTINGUISHER WITH PSB LABEL
- FM / UL APPROVED TYPE YELLOW FLAMMABLE CABINET
- FLAMMABLE GAS
- EXISTING HOSE REEL

OF ENDORSEMENT

1. Jeyaraj, Tan, WTC No./Project No. 23/000002
being a qualified person, under the Fire Safety Act, hereby certify that the fire safety works as shown on these plans have been designed in accordance with the provisions of the Fire Code 2015, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications as shown under section 37 of the Fire Safety Act.

2. Jeyaraj, Tan, hereby certify that the existing fire alarm system has been designed in accordance with the provisions of SS 532:2007, MSF 45:2011 & MSF 55:2005.

3. Jeyaraj, Tan, hereby certify that the existing fire alarm system has been designed in accordance with the provisions of SS 532:2007, MSF 45:2011 & MSF 55:2005.

QUALIFIED PERSON (ARCH)

JTP ARCHITECTS

2 SECOND AVENUE
Singapore 266622
TEL : 64664676 FAX : 64676305
Email: jtparchitects@jtparchitects.com.sg

QUALIFIED PERSON (ME)

L LOKE & ASSOCIATES
CONSULTING MECHANICAL & ELECTRICAL ENGINEERS

LOKE & ASSOCIATES
800 BEACH ROAD #10-02 SINGAPORE 199571
SINGAPORE 199571 TEL : 63674747 FAX : 63674754
EMAIL ADDRESS : lloke@lokeandassociates.com.sg

APPROVED

NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF BIOLOGICAL SCIENCES
10 NANYANG DRIVE
SINGAPORE 637551

PROJECT TITLE

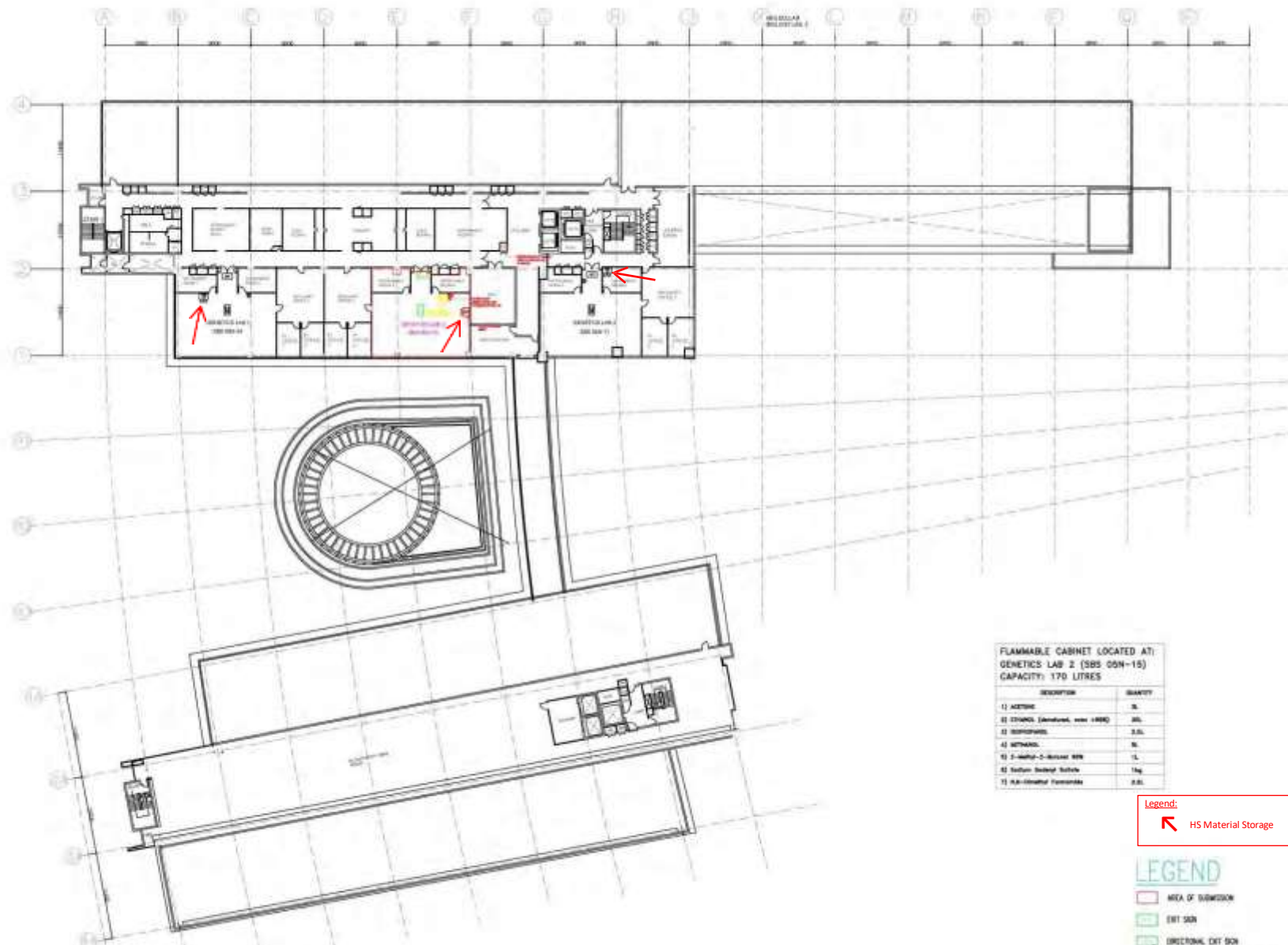
PROPOSED ADDITIONS & ALTERATIONS TO EXISTING FLAMMABLE MATERIAL STORAGE AT NANYANG TECHNOLOGICAL UNIVERSITY, SCHOOL OF BIOLOGICAL SCIENCES AT 10 NANYANG DRIVE, SINGAPORE 637551

DRAWING TITLE

4 STOREY PLAN

DESIGNED BY	DATE	8/20/2013
DRAWN BY	CHECKED BY	10/01/2013
DESIGNED NO.	LA / NU / 2013 / 01 / 008	

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FLAMMABLE CABINET LOCATED AT:
GENETICS LAB 2 (SBS 05N-15)
CAPACITY: 170 LITRES

DESCRIPTION	QUANTITY
1) ACETONE	3L
2) ETHANOL (Anhydrous, over 99%)	30L
3) DIMETHYL SULFOXIDE	3.5L
4) METHANOL	6L
5) 2-methyl-2-butanol (MIBK)	1L
6) Sodium Borohydride Solution	15kg
7) 4,4'-Dithiodipyridine	0.5L

Legend:
 HS Material Storage

LEGEND

- AREA OF DISMISSED
- EXIT SIGN
- DIRECTIONAL EXIT SIGN
- TWO SIDED DIRECTIONAL EXIT SIGN
- 8 KG 3300 ABC DRY POWDER FIRE EXTINGUISHER WITH P30 LABEL
- 70L / 10L APPROVED YELLOW FLAMMABLE CABINET
- EXISTING RISER/STAIR

5TH STOREY PLAN

SCALE : 1/50

THIS FLOOR IS PROTECTED BY EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM

H:\FSSD - BP PLAN.dwg, 5/6/2017 3:44:51 PM, DWG TO PDF.pc3

BY ENDORSEMENT:

I, James Tan, HNC No./Project No. 112040010, being a qualified person, under the Fire Safety Act, hereby certify that the fire safety works at shown on these plans have been designed in accordance with the provisions of the Fire Code 2011, the Fire Safety Act and any regulations made thereunder, the relevant codes of practice and design guidelines, subject to modifications of orders under section 27 of the Fire Safety Act.

I, James Tan, hereby certify that the existing flammable material storage has been designed in accordance with the provisions of SS 515:2014 & SS 516:2013.

DESIGNED PERSON (MOC):

JTP ARCHITECTS

2 SECOND AVENUE
Singapore 268852
TEL : 94554676 FAX : 94576385
Email: morphos@jtparchitects.com.sg

DESIGNED PERSON (SAC):

LONE & ASSOCIATES
CONSULTING MECHANICAL & ELECTRICAL ENGINEERS
LONE & ASSOCIATES
800 BEACH ROAD #10-01 GOLDEN HILL TOWER
SINGAPORE 109581
TEL: 63963802 FAX: 63967074
EMAIL ADDRESS: lone@lonegroup.com.sg

APPROVED:

NANYANG TECHNOLOGICAL UNIVERSITY
SCHOOL OF BIOLOGICAL SCIENCES
60 NANYANG DRIVE
SINGAPORE 637551

PROJECT FILE:

PROPOSED ADDITIONS & ALTERATIONS TO EXISTING FLAMMABLE MATERIAL STORAGE AT NANYANG TECHNOLOGICAL UNIVERSITY, SCHOOL OF BIOLOGICAL SCIENCES AT 60 NANYANG DRIVE, SINGAPORE 637551

DRAWING FILE:

5TH STOREY LAYOUT PLAN

FILENAME:	SS 515:2014	DATE:	MAY 2016
SCALE:	1/50	DESIGNED BY:	LOAN
DRAWN BY:	LOAN	CHECKED BY:	LOAN
ISSUED NO:	1A / RTJ-SS5 / 0P / 005		

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Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02n-01

Person-in-charge: Asst Prof. Alexander Ludwig

Contact Person: Natasha Amiera

Lab address: SBS-02N-01

Date of update: 31 August 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetone	1090	Liquid	SBS-02n-01	2.5L	1	2.5 L
2	Corn oil	-	Liquid	SBS-02n-01	2L	1	2 L
3	Ethanol, 99% (with 5% Methanol)	1170	Liquid	SBS-02n-01	5L	1	5L
4	Ethanol, absolute	1170	Liquid	SBS-02n-01	2.5L	2	5 L
5	Ethanol, anhydrous, EM grade	1170	Liquid	SBS-02n-01	450mL	6	2.7 L
6	Ethyl alcohol, pure	1170	Liquid	SBS-02n-01	500mL	2	1 L
7	HM2O (monostep lowicryl)	1993	Solid	SBS-02n-01 (F)	225g	1	225g
8	Monomer E Solution (Lowicryl HM2O)	1993	Liquid	SBS-02n-01(F)	225ml	3	675ml
9	Propan-2-ol (Isopropanol), HPLC grade	1219	Liquid	SBS-02n-01	2.5L	1	2.5 L
10	Diethyl Ether	1155	Liquid	SBS-02n-01(F)	1L	1	1L
Flammable AND Hazardous Substances							
11	Acetic Acid	2789	Liquid	SBS-02n-01	2.5L	1	2.5 L
12	Amylamine	1106	Liquid	SBS-02n-01	25mL	1	25 mL
13	CCB Stain One Super	-	Liquid	SBS-02n-01	100ml	1	100ml
14	Glutaraldehyde 10% Anhydrous in Acetone	1993	Liquid	SBS-02n-01 (F)	10ml	6	60ml
15	LR White Embedding medium, Benzoyl peroxide powder	3106	solid	SBS-02n-01 (F)	9.9g	2	19.8g
16	Methanol	1230	Liquid	SBS-02n-01	2.5L	2	5 L
17	Methanol, : acetic acid 3:1	1230	Liquid	SBS-02n-01	100ml	1	100ml

18	Methanol, Industrial Grade	1230	Liquid	SBS-02n-01	5L	1	5 L
19	Paraformaldehyde	2213	Solid	SBS-02n-01	1Kg	1	1 Kg
20	Cadmium Iodide	2570	Solid	SBS-02n-01	25g	1	25g
21	Lead nitrate	1469	Solid	SBS-02n-01	25g	1	25g
22	LR White UV Accelerator	-	Liquid	SBS-02n-01	10ml	2	20ml
23	Mersalyl Acid	2025	Solid	SBS-02n-01	1g	2	2g
24	Osmium Tetroxide	2476	Solid	SBS-02n-01	1g	10	10g
25	Paraformaldehyde 16% Solution	2209	Liquid	SBS-02n-01	10ml	10	100ml
26	Paraformaldehyde 32% Solution	2209	Liquid	SBS-02n-01	10ml	9	90ml
27	Potassium Cyanide	1680	Solid	SBS-02n-01	100g	1	100g
28	Potassium Ferricyanide (III)	-	Solid	SBS-02n-01	50g	1	50g
29	Ruthenium Red	-	Solid	SBS-02n-01	1g	1	1g
30	Sodium (meta)periodate	1479	Solid	SBS-02n-01	100g	1	100g
31	Sodium Cacodylate, Trihydrate	1688	Solid	SBS-02n-01	500g	2	1Kg
32	Thiocarbohydrazide	-	Solid	SBS-02n-01	5g	1	5g
33	Trilead Dicitrate (Lead Citrate, Trihydrate)	-	Solid	SBS-02n-01	100g	1	100g
34	Propylene Oxide	1280	Liquid	SBS-02n-01	250mL	1	250 mL
35	Propan-2-ol (Isopropanol)	1219	Liquid	SBS-02n-01 (F)	2.5L	1	2.5L
36	Temed	2372	Liquid	SBS-02n-01 (F)	5ml	1	5ml
Petroleum & Petroleum Products							
37	Vaseline	-	Solid	SBS-02n-01	7g	1	7g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02n-10

Person-in-charge: Prof. Kanaga Sabapathy

Contact Person: Sashwini D/O Chandra Kumar

Lab address: SBS-02N-10

Date of update: 27 July 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Propanol	1219	Liquid	SBS-02n-10 FC	2.5L	2	5L
2	3-methyl-2-butanol	1105	Liquid	SBS-02n-10 FC	250ml	1	250ml
3	Acetic Acid	2789	Liquid	SBS-02n-10 FC	2.5L	1	2.5L
4	Acetic Acid	2789	Liquid	SBS-02n-10 FC	500ml	1	500ml
5	Acetone	1090	Liquid	SBS-02n-10 FC	2.5L	1	2.5L
6	Coomassie Brilliant Blue	2924	Liquid	SBS-02n-10 FC	1 L	3	3L
7	N,N - Dimethylformamide	2265	Liquid	SBS-02n-10 FC	2 L	1	2 L
8	N,N - Dimethylformamide	2265	Liquid	SBS-02n-10 FC	2.5L	1	2.5L
9	DPX Mounting Media	1170	Liquid	SBS-02n-10 FC	1.2 L	1	1.2 L
10	Ethanol (Absolute)	1170	Liquid	SBS-02n-10 FC	2.5L	1	7.5L
11	Ethanol 99% (with 5% Methanol), Industrial	1170	Liquid	SBS-02n-10 FC	5L	3	20L
12	Giemsa Stain, Modified	1230	Liquid	SBS-02n-10 FC	1L	1	1L
13	Giemsa Stain, Modified Solution	1230	Liquid	SBS-02n-10 FC	500ml	2	1L
14	Gram's crystal violet solution	-	Liquid	SBS-02n-10 FC	500ml	2	1L
15	Wright-Giemsa Stain, Modified	1230	Liquid	SBS-02n-10 FC	500ml	1	500ml
16	Weigert's Hematoxylin Solution A	1170	Liquid	SBS-02n-10 FC	500ml	1	500ml
17	Hexane (Laboratory Reagent, ≥95%)	1208	Liquid	SBS-02n-10 FC	2.5L	1	2.5L
18	Hexane (suitable for HPLC, ≥97.0% (GC))	1208	Liquid	SBS-02n-10 FC	1L	1	1L
19	Isoamyl Alcohol	1219	Liquid	SBS-02n-10 FC	500ml	1	500ml
20	Methanol	1230	Liquid	SBS-02n-10 FC	2.5L	3	10L
21	Sodium Borohydrate	1426	Solid	SBS-02n-10 FC	20g	1	20g

22	TEMED	2372	Liquid	SBS-02n-10 FC	5ml	1	10ml
23	Triethylamine, 99%	1296	Liquid	SBS-02n-10 FC	250ml	1	250ml
24	Toluene	1294	Liquid	SBS-02n-10 FC	2.5L	1	2.5L
25	Total Phenolics	1090	Liquid	SBS-03n FZ	1ml	1	1ml
26	Xylene	1307	Liquid	SBS-02n-10 FC	18L	1	18L
Hazardous Substances							
1	9-Aminoacridine Hydrochloride Monohydrate	2811	Solid	SBS-02n-10 OS	5g	1	5g
2	Arsenic(III) oxide	1561	Solid	SBS-02n-10 LK	25g	1	25g
3	Barium chloride(dihydrate)	1564	Solid	SBS-02n-10 DW	100g	1	100g
4	Boric Acid	-	Solid	SBS-02n-10 LK	5kg	1	5kg
5	1-Bromo-3-Chloropropane	2688	Liquid	SBS-02n-10 OS	200ml	2	600ml
6	Caffeine	1544	Solid	SBS-02n-10 OS	5g	1	5g
7	Cholecystokinin (CCK) Fragment 26-33 Amide, Non-sulfated	-	Solid	SBS-02n-10 FZ	1mg	1	1mg
8	Cobalt Chloride	3288	Solid	SBS-02n-10 OS	100g	1	100g
9	Chromium (VI) oxide	1463	Solid	SBS-02n-10 DW	5g	1	5g
10	Cycloheximide	2811	Solid	SBS-02n-10 OS	5g	1	5g
11	Dichloromethane	1593	Liquid	SBS-02n-10 CC	1L	1	1L
12	Ethanolamine	2491	Liquid	SBS-02n-10 CC	100ml	1	100ml
13	Ferrous Sulfate	-	Solid	SBS-02n-10 F	1g	2	1g
14	Formalin solution, neutral buffered, 10%	3334	Liquid	SBS-02n-10 CC	4L	2	12L
15	10% Neutral Buffered Formalin	2209	Liquid	SBS-02n-10 CC	4L	2	12L
16	Formaldehyde	1779	Liquid	SBS-02n-10 CC	250ml	1	250ml
17	Formeldehyde	1789	Liquid	SBS-02n-10 CC	250ml	1	250ml
18	Formic Acid	2014	Liquid	SBS-02n-10 CC	100ml	1	100ml
19	Hydrochloric Acid (37%)	3077	Liquid	SBS-02n-10 CC	2.5L	1	2.5L
20	Hydrogen peroxide 30%	2014	Liquid	SBS-02n-81 F	1L	1	1L
21	Hydroquinone	3077	Solid	SBS-02n-10 LK	100g	1	100g
22	IGEPAL® CA-630	3082	Liquid	SBS-02n-10 CC	500ml	1	500ml
23	Iodine monochloride	1792	Solid	SBS-03n FZ	1ml	1	1ml

24	Linoleic acid	-	Liquid	SBS-03n FZ	5ml	1	5ml
25	Lycotoonine	-	Packet	SBS-02n-10 F	10mg	1	100mg
26	Manganese(II) chloride tetrahydrate	3288	Solid	SBS-02n-10 LK	100g	1	100g
27	Manganese(II) chloride 4-hydrate	3288	Solid	SBS-02n-10 LK	250g	1	250g
28	Manganese(II) sulfate monohydrate	3077	Solid	SBS-02n-10 CC	100g	1	100g
29	2-mercaptoethanol – min 98%	2966	Liquid	SBS-02n-10 CC	200ml	0	200ml
30	2-mercaptoethanol	2966	Liquid	SBS-02n-10 CC	500ml	1	500ml
31	Phenol:Chloroform:Isoamyl Alcohol 25:24:1, Saturated with 10mM Tris, pH 8.0, 1mM EDTA	2922	Liquid	SBS-02n-10 CC	100ml	1	100ml
32	Picric acid solution	-	Liquid	SBS-02n-10 CC	1 Gal	1	1 Gal
33	Phytic Acid	3265	Packet	SBS-02n-10 F	250ml	1	250ml
34	Potassium Dichromate	3086	Solid	SBS-02n-10 OS	500g	1	500g
35	Potassium Hydroxide (90%) Pellets	1813	Solid	SBS-02n-10 LK	500g	2	1kg
36	Serotonin hydrochloride	-	Solid	SBS-02n-10 F	25mg	1	25mg
37	Silver nitrate	1493	Solid	SBS-02n-10 DW	1g	1	1g
38	Sodium Azide	-	Solid	SBS-02n-10 LK	100g	2	200g
39	Sodium Borate	-	Solid	SBS-02n-10 LK	500g	1	500g
40	Sodium Hydroxide (99%) Pellets	1823	Solid	SBS-02n-10 LK	1kg	7	10kg
41	Sodium Orthovanadate	3288	Solid	S SBS-02n-10 OS	10g	3	30g
42	Sodium Selenite	2630	Solid	SBS-02n-10 OS	1g	1	1g
43	Succinic acid	-	Solid	SBS-02n-10 CC	100g	1	100g
44	Di - Sodium tetraborate	-	Solid	SBS-02n-10 LK	500g	2	1kg
45	Thioacetamide	3077	Solid	SBS-02n-10 F	50g	1	50g
46	2,2,2-Tribromoethanol	2811	Solid	SBS-02n-10 OS	50g	1	50g
47	Triadimenol	3077	Solid	SBS-02n-10 OS	250mg	1	250mg
48	Trichloroacetic acid	1839	Solid	SBS-02n-10 OS	250g	1	250g
49	Triethanolamine	-	liquid	SBS-02n-81 FC	100ml	27	2.7L
50	TRIzol™ Reagent	2922	Liquid	SBS-02n-10 F	200ml	5	1L
51	Zinc Chloride	2331	Solid	SBS-02n-10 OS	500g	1	500g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02n-13

Person-in-charge: Prof. Francesc Xavier Roca Castella

Contact Person: Zhen Yashu, Donald Sim Yuhui

Lab address: SBS-02N-13

Date of update: 01 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Ethanol, 70%	1170	Liquid	SBS - 02s-13	5L	1	5L
2	Ethanol, 99%	1170	Liquid	SBS - 02s-13	5L	1	5L
3	Acetone	1090	Liquid	SBS - 02s-13	5L	1	5L
4	N,N,-Dimethylformamide	2265	Liquid	SBS - 02s-13	100ml	1	100ml
5	N,N,-Dimethylformamide	2265	Liquid	SBS - 02s-13	2.5L	1	2.5L
6	Ethanol (Denatured, conc >99%)	1170	Liquid	SBS - 02s-13	2.5L	1	2.5L
7	Giemsa Stain, Modified Solution	1230	Liquid	SBS - 02s-13	100ml	1	100ml
8	Isopropanol	1219	Liquid	SBS - 02s-13	2.5L	1	2.5L
9	Isopropanol	1219	Liquid	SBS - 02s-13	2.5L	1	2.5L
10	Isopropanol	1219	Liquid	SBS - 02s-13	250ml	1	250ml
11	Isopropanol	1219	Liquid	SBS - 02s-13	50ml	2	50ml
12	Methanol	1230	Liquid	SBS - 02s-13	2.5L	1	2.5L
13	Methanol	1230	Liquid	SBS - 02s-13	50ml	1	50ml
14	Transfer Buffer	-	Liquid	SBS - 02s-13	1L	3	1L
15	Butano Mix GLS Pierceable Cartridge (with Burner)	2037	Liquid	SBS - 02s-13	190g	1	190g
16	Acetic Acid	2789	Liquid	SBS - 02s-13	2.5L	1	2.5L
17	Acetic Acid	2789	Liquid	SBS - 02s-13	50ml	1	50ml
18	SDS	1325	Liquid	SBS - 02s-13	1L	1	1L
19	N,N,N,-Tetramethyl-ethylenediamine (TEMED)	2372	Liquid	SBS - 02s-13	100ml	1	100ml
20	Ultrapure TEMED	2372	Liquid	SBS - 02s-13	30ml	1	30ml
21	TEMED	2372	Solid	SBS - 02s-13	5ml	1	5ml

Hazardous Substances (cc)							
22	Formaldehyde	2209	Liquid	02s-13	250ml	1	250ml
23	Formaldehyde	2209	Liquid	02s-13	25ml	1	25ml
24	Hydrochloric acid 37%	1789	Liquid	02s-13	500ml	1	500ml
25	Hydrochloric acid (37%)	1789	Solid	02s-13	250ml	1	250ml
26	Potassium Hydroxide	1813	Solid	02s-13	1kg	1	1kg
27	Sodium Hydroxide Solution 1M	1824	Liquid	02s-13	100ml	1	100ml
28	Sodium Hydroxide	1823	Solid	02s-13	1kg	1	1kg
29	Hydrazine monohydrate	2030	Solid	02s-13	5g	1	5g
30	10M Sodium Hydroxide	1824	Liquid	02s-13	250ml	1	250ml
31	2M Hydrochloric Acid	1789	Solid	02s-13	100ml	1	100ml
32	1M Hydrochloric Acid	1789	Liquid	02s-13	100ml	1	100ml
33	Hydroquinone (99%)	2662	Liquid	02s-13	100g	1	100g
34	Chloroform: Isoamyl Alcohol 24:1	1888	Liquid	02s-13	400ml	1	400ml
35	IGEPAL CA-630	-	Liquid	02s-13	50ml	1	50ml
36	IGEPAL CA-630	-	Liquid	02s-13	100ml	1	100ml
37	Phenolmethanesulfonyl fluoride	2928	Liquid	02s-13	5g	1	5g
38	Silver nitrate	1493	Liquid	02s-13	25g	1	25g
39	Benzalkonium Chloride Solution	1903	Liquid	02s-13	500ml	1	500ml
40	Benzalkonium Chloride Solution (4xD)	1903	Liquid	02s-13	500ml	1	500ml
41	Triton X-100	3082	Liquid	02s-13	500ml	1	500ml
42	Phosphotungstic acid hydrate	3260	Liquid	02s-13	10g	1	10g
43	Crystal Violet	2811	Liquid	02s-13	50g	1	50g
44	Crystal Violet	2811	Liquid	02s-13	10g	1	10g
45	Ponceau S stain	-	Liquid	02s-13	500ml	1	500ml
46	Boric Acid	-	Solid	02s-13	1kg	1	1kg
47	Potassium cyanide	1680	Solid	02s-13	100g	1	100g
48	Sodium Azide	1687	Solid	02s-13	25g	1	25g
49	Sodium (meta)arsenite	1686	Solid	02s-13	100g	1	100g
50	Sodium (meta)arsenite 5mM	1686	Liquid	02s-13	250ml	1	250ml

51	Ethidium Bromide	2811	Liquid	02s-13	10ml	1	10ml
52	Chloroform	1888	Liquid	02s-13	2.5L	1	2.5L
53	Chloroform (Aliquot)	1888	Liquid	02s-13	250ml	1	250ml
54	Chloroform (Aliquot)	1888	Liquid	02s-13	100ml	1	100ml
55	Aniline hydrochloride	2811	Solid	02s-13	5g	1	5g
56	Ammonium Persulfate	1444	Solid	02s-13	10g	2	20g
57	Dimethyl sulfoxide (DMSO)	-	Liquid	02s-13	1l	1	1l
58	Mayer's Hematoxylin Solution	-	Liquid	02s-13	100ml	1	100ml
59	Mayer's Hematoxylin Solution (Aliquot)	-	Liquid	02s-13	50ml	1	50ml
60	Congo Red	-	Solid	02s-13	25g	1	25g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02n-13

Person-in-charge: Prof. Choe Young Jun

Contact Person: Yoon Mi Jeong

Lab address: SBS-02N-13

Date of update: 10 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetone	UN 1090	Liquid	SBS-02N-13	2.5L	3	7.5L
2	Ethanol 99% (with 5% Methanol)	UN 1170	Liquid	SBS-02N-13	5L	2	10L
3	Ethanol 99.5-99.8%, Absolute, Analysis	UN 1170	Liquid	SBS-02N-13	2.5L	1	2.5L
4	Ethanol, 70%	UN 1170	Liquid	SBS-02N-13	4L	1	4L
5	Ethyl alcohol pure (for RNA)	UN 1170	Liquid	SBS-02N-13	1L	1	1L
6	Isopropanol/2-propanol	UN 1219	Liquid	SBS-02N-13	2.5L	1	2.5L
7	Methanol, 99.8% or more, AR	UN 1230	Liquid	SBS-02N-13	2.5L	2	5L
8	Acetic acid	UN 2790	Liquid	SBS-02N-13	2.5L	1	2.5L
9	SDS	UN 1325	Solid	SBS-02N-13	1kg	1	1Kg
10	10x MES buffer(w/o Sodium Bisulfate)	-	Liquid	SBS-02N-13	1L	1	1L
11	Transfer Buffer (5x)	-	Liquid	SBS-02N-13	2.5L	1	2.5L
12	TEMED	UN 2372	Liquid	SBS-02N-13	5ml	1	5ml
13	Formaldehyde	UN 2209	Liquid	SBS-02N-13	25ml	3	75ml
Hazardous Substances (cc)							
14	Hydrochloric acid fuming 37%	UN 1789	Liquid	SBS - 02n-13	2.5L	1	2.5L
15	Hydrochloric acid fuming 37%	UN 1789	Liquid	SBS - 02n-14	100ml	1	100ml
16	Formaldehyde	UN 2209	Liquid	SBS 02n-13	25ml	3	75ml
17	Sodium Hydroxide pellets	UN 1823	Solid	SBS 02n-13	1kg	2	2kg
18	Formamide	-	Liquid	SBS 02n-13	1L	1	1L
19	Sodium azide	UN 1687	Solid	SBS 02n-13	100g	1	100g
20	Sodium azide	UN 1687	Solid	SBS 02n-13	10g	1	10g

21	Hygromycin B	UN 3172	Liquid	SBS-02N-13	20ml	1	20ml
22	30% Acrylamide/Bis Solution (37.5:1)	UN 3426	Liquid	SBS-02N-13	500ml	1	500ml
23	30% Acrylamide/Bis Solution (29:1)	UN 3426	Liquid	SBS-02N-13	500ml	1	500ml
24	Protein Assay reagent concentrate	UN 2924	Liquid	SBS-02N-13	450ml	1	450ml
25	40% Acrylamide/Bis Solution (19:1)	UN 3426	Liquid	SBS-02N-13	500ml	1	500ml
26	Antimycin A from Streptomyces SP.	UN 3462	Solid	SBS-02N-13	100mg	1	100mg
27	3-Amino-1,2,4-triazole	UN 3077	Solid	SBS-02N-13	100g	1	100g
28	Trichloroacetic Acid	UN 2564	Liquid	SBS-02N-13	100ml	1	100ml
29	Tigecycline	UN 3077	Solid	SBS-02N-13	500mg	1	500mg
30	Tigecycline	UN 3077	Solid	SBS-02N-13	1mg	1	1mg
31	Mercaptoethanol	UN 2966	Liquid	SBS-02N-13	25ml	1	25ml
32	Triton X-100	UN 3082	Liquid	SBS-02N-13	500ml	1	500ml
33	Trizol Reagent	UN 2810	Liquid	SBS-02N-13	200ml	1	200ml
34	Copper(II) sulfate	UN 3077	Solid	SBS-02N-13	100g	1	100g
35	Copper(II) sulfate pentahydrate	UN 3077	Solid	SBS-02N-13	250g	1	250g
36	NP-40	UN 3082	Liquid	SBS-02N-13	1L	1	1L
37	Potassium Hydroxide	UN 1813	Solid	SBS-02N-13	1kg	1	1kg
38	Sodium Hydroxide pellets	UN 1823	Solid	SBS-02N-13	1 kg	1	1 kg
39	N-lauroylsarcosine sodium salt	UN 2811	Solid	SBS-02N-13	250g	1	250g
40	Maleic acid	UN 2215	Solid	SBS-02N-13	500g	1	500g
41	Zinc Chloride	UN 2331	Solid	SBS-02N-13	100g	1	100g
42	Sodium Bisulfate Monohydrate	UN 3260	Solid	SBS-02N-13	500g	1	500g
43	Imidazole	UN 3263	Solid	SBS-02N-13	500g	1	500g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02n-41

Person-in-charge: Prof. Su I Hsin (Prof Xavier Roca)

Contact Person: Maegan Bunjamin, Alice Sint Thida Bo

Lab address: SBS-02N-41

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Propanol	1219	liquid	SBS-02n-41	2.5L	2	5L
2	Acetic Acid 100%	2789	liquid	SBS-02n-41	2.5L	2	5L
3	Acetone	1090	liquid	SBS-02n-41	2.5L	3	7.5L
4	Butane gas	1011	gas	SBS-02n-41	190g	6	1140g
5	DPX mountant for histology	1993	liquid	SBS-02n-41	500ml	1	500ml
6	DPX mountant for histology	1307	liquid	SBS-02n-41	500ml	1	500ml
7	Ethanol >99% pure	1170	liquid	SBS-02n-41	2.5L	2	5L
8	Ethanol 99% pure (5% methanol)	1170	liquid	SBS-02n-41	5L	1	10L
9	Ethyl alcohol, pure	1170	liquid	SBS-02n-41	500ml	1	500ml
10	Hexafluoroacetone trihydrate	2552	solid	SBS-02n-41	5g	1	5g
11	Iodine	3495	liquid	SBS-02n-41	100g	1	100g
12	Methanol	1230	liquid	SBS-02n-41	2.5L	1	2.5L
13	Permout Mounting Media Toluene	1294	liquid	SBS-02n-41	500ml	2	1L
14	Pyridine	1282	liquid	SBS-02n-41	100ml	1	100ml
15	Xylene	1307	liquid	SBS-02n-41	4L	2	8L
Hazardous Substances (cc)							
16	2-mercaptoethanol	2966	Liquid	02N-41	100ml	1	100ml
17	Acrylamide, 99.9%	2074	Solid	02N-41	100g	1	100g
18	Chloroform	1888	Liquid	02N-41	2.5L	2	5L
19	Chloroform	1888	Liquid	02N-41	1L	1	1L
20	Dimethyl formamide	2265	Liquid	02N-41	2.5L	1	2.5L

22	Enhancer	2920	Liquid	02N-41	1L	2	1L
23	Enhancer Spray	2920	Liquid	02N-41	57g	1	57g
24	Formaldehyde	1198	Liquid 37%	02N-41	500ml	1	500ml
25	Formaldehyde (10-15% methanol)	2209	Liquid	02N-41	500ml	1	500ml
26	Formic Acid	1779	Liquid	02N-41	100ml	1	100ml
27	Hydrobromic Acid	1788	Liquid	02N-41	250ml	1	250ml
28	Hydrochloric acid (37%)	1789	Liquid 37%	02N-41	2.5L	1	2.5L
29	Iodomethane	2644	Liquid	02N-41	250ml	1	250ml
30	Isofluorane	3334	Liquid	02N-41	250ml	6	1L
31	Nitric Acid 70%	2031	Liquid	02N-41	500ml	1	500ml
32	Paraformaldehyde 95%	2213	Solid	02N-41	500g	1	500g
33	Selenium	3283	Solid	02N-41	20g	1	20g
34	Sodium borohydride	1426	Solid	02N-41	25g	1	25g
35	Sulphuric Acid	1830	Liquid	02N-41	1L	1	1L
36	Trifluoroacetic acid	2699	Liquid	02N-41	0.75ml	10	7.5ml
37	Trifluoroacetic acid	2699	Liquid	02N-41	100ml	1	100ml
38	Ultima Gold	3082	Liquid	02N-41	1L	1	1L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02n-41

Person-in-charge: Prof. Yang Ming Xiao

Contact Person: Prajapati Jinal

Lab address: SBS-02N-41

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Methanol	1230	Liquid	02N-41	2.5L	2	5L
2	Acetonitrile	1648	Liquid	02N-41	2.5L	2	5L
3	Ethanol	1170	Liquid	02N-41	5L	2	10L
Hazardous Substances							
1	Methanol	1230	Liquid	02N-41	2.5L	2	5L
2	Acetonitrile	1648	Liquid	02N-41	2.5L	2	5L
3	Ethanol	1170	Liquid	02N-41	5L	2	10L
4	N-ethylmaleimide	2811	Solid	02N-41	5g	1	5g
5	5-sulfosalicyclic acid dihydrate	3265	Solid	02N-41	100g	1	100g
6	Dimethyl sulfoxide	-	Liquid	02N-41	100ml	1	100ml
7	N-Acetyl-L-cysteine bioreagent	-	Solid	02N-41	5g	1	5g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-82

Person-in-charge: Prof. Tang Bozeng

Contact Person: Yuan Lin

Lab address: SBS-02S-82

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Number	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic acid	2789	Liquid	SBS-02S-82	100mL	1	100mL
2	Acetic acid (glacial) 100%	2789	Liquid	SBS-02S-82	2.5L	1	2.5L
3	Acetone	1090	Liquid	SBS-02S-82	2.5L	2	5L
4	Butane	2037	Liquid	SBS-02S-82	190g	5	950g
5	Dodecane (>99%)	-	Liquid	SBS-02S-82	500mL	1	500mL
6	EMSURE Ethanol	1170	Liquid	SBS-02S-82	2.5L	1	2.5L
7	Ethanol	1170	Liquid	SBS-02S-82	5L	3	15L
8	Ethyl acetate	1173	Liquid	SBS-02S-82	2.5L	1	2.5L
9	Formaldehyde solution	1198	Liquid	SBS-02S-82	250mL	1	250mL
10	Hexanes	1208	Liquid	SBS-02S-82	4L	1	4L
11	Methanol	1230	Liquid	SBS-02S-82	5L	1	5L
12	Methanol (>99.9%)	1230	Liquid	SBS-02S-82	2.5L	1	2.5L
13	2-propanol	1219	Liquid	SBS-02S-82	1L	2	2L
Regulated Hazardous Substances / Poisons							
14	3-Amino-1,2,4-triazole (Amitrole)	-	Solid	SBS-02S-82	25g	1	25g
15	Amphotericin B solution	-	Liquid	SBS-02S-82	50mL	1	50mL
16	Boric acid	-	Solid	SBS-02S-82	500g	2	1kg
17	Chloroform	1888	Liquid	SBS-02S-82	2.5L	2	5L
18	Chloroform:Isoamyl alcohol (24:1)	1888	Liquid	SBS-02S-82	946mL	2	1.892L
19	Potassium hydroxide pellets for analysis EMSURE®	1813	Solid	SBS-02S-82	1kg	1	1kg
20	Potassium hydroxide solution	1814	Liquid	SBS-02S-82	50mL	1	50mL

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-82

Person-in-charge: Prof. Hong Yan

Contact Person: Keegan Lee-Ng

Lab address: SBS-02S-82

Date of update: 4 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Methanol	1230	Liquid	02s-82 (FC)	1 L	1	1 L
2	Methanol	1230	Liquid	02s-82 (FC)	2.5 L	1	2.5 L
3	Absolute Ethanol	1170	Liquid	02s-82 (FC)	2.5 L	1	2.5 L
4	Hydrogen Peroxide Solution 30%	2014	Liquid	02s-82 (FC)	500 mL	1	500 mL
5	Kerosene	1223	Liquid	02s-82 (FC)	~500 mL (aliquot)	1	~500 mL
6	Turpentine	1299	Liquid	02s-82 (FC)	~500 mL (aliquot)	1	~500 mL
7	100% Ethanol	1170	Liquid	02s-82 (FC)	~500 mL (aliquot)	1	~500 mL
8	Isopropanol (2-propanol) 99.5%	1219	Liquid	02s-82 (FC)	~500 mL (aliquot)	1	~500 mL
9	N,N-dimethylformamide, anhydrous	2265	Liquid	02s-82 (FC)	~500 mL (aliquot)	1	~500 mL
10	Ethanol 99% (denatured with 5% Methanol)	1987	Liquid	02s-82 (FC)	5 L	2	10 L
Hazardous Substances (cc)							
11	2-Mercaptoethanol	2966	Liquid	02s-82 (CC)	100 mL	1	100 mL
12	2-Mercaptoethanol	2966	Liquid	02s-82 (CC)	250 mL	1	250 mL
13	Hydrochloric acid fuming 37%	1789	Liquid	02s-82 (CC)	2.5 L	1	2.5 L
14	Cobalt(II) Chloride Hexahydrate	3077	Solid	02s-82 (CC)	25 g	1	25 g
15	Lactic acid	-	Liquid	02s-82 (CC)	100 mL	1	100 mL
16	Zinc chloride	2331	Solid	02s-82 (CC)	50 g	1	50 g
17	Calcium nitrate tetrahydrate	1454	Solid	02s-82 (CC)	500 g	2	1 kg
18	Salicylic acid	-	Solid	02s-82 (CC)	500 g	1	500 g
19	Hexadecyltrimethylammonium bromide	3077	Solid	02s-82 (CC)	100 g	1	100 g

	(CTAB)						
20	Copper(II) sulfate	3077	Solid	02s-82 (CC)	100 g	1	100 g
21	Zinc sulfate heptahydrate	3077	Solid	02s-82 (CC)	100 g	1	100 g
22	Iron(III) chloride hexahydrate	3260	Solid	02s-82 (CC)	1 kg	1	1 kg
23	(-)-Camphor-10-sulfonic acid	3261	Solid	02s-82 (CC)	50 g	1	50 g
24	Potassium hydroxide	1813	Solid	02s-82 (CC)	500 g	1	500 g
25	Sodium hydroxide pellets	1823	Solid	02s-82 (CC)	1 kg	1	1 kg
26	Potassium hydroxide pellets	1813	Solid	02s-82 (CC)	1 kg	1	1 kg
27	Sodium hydroxide	1823	Solid	02s-82 (CC)	500 g	1	500 g
28	Spermidine	2735	Solid	02s-82 (CC)	1 g	1	1 g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-88

Person-in-charge: Prof. Ma Wei

Contact Person: Chin Hui Jun

Lab address: SBS-02S-88

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Propanol	1219	Liquid	02s88	2.5L	2	5L
2	Acetone	1090	Liquid	02s88	2.5L	1	2.5L
3	Chloroform	1888	Liquid	02s88	2.5L	1	2.5L
4	Chloroform:Isoamyl alcohol 24:1	1888	Liquid	02s88	1Pint	1	1Pint
5	Diethyl ether	1155	Liquid	02s88	1L	1	1L
6	Diethyl ether	1155	Liquid	02s88	1L	1	1L
7	Dimethyl Sulfoxide	-	Liquid	02s88	500ml	1	500ml
8	DPX mountant for histology	1993	Liquid	02s88	500ml	1	500ml
9	Ethanol	1170	Liquid	02s88	2.5L	2	5L
10	Ethanol 99% (with 5% Methanol)	1170	Liquid	02s88	5L	3	15L
11	Formaldehyde solution	2209	Liquid	02s88	500ml	1	500ml
12	Formic acid	1779	Liquid	02s88	500ml	1	500ml
13	Hexanes	1208	Liquid	02s88	1	2.5L	2.5L
14	Methanol (ACS Labgrade for Analysis)	1230	Liquid	02s88	2.5L	1	2.5L
15	Methanol 99%	1230	Liquid	02s88	2.5L	1	2.5L
16	N-N-dimethylfomamide	2265	Liquid	02s88	500ml	1	500ml
17	Toluene	1294	Liquid	02s88	1L	1	1L
18	Xylenes	1307	Liquid	02s88	4L	2	8L
Hazardous Substances (cc)							
19	Acetic Acid (glacial) 100%	2789	Liquid	02s88	2.5L	1	2.5L

20	Chloroform:Isoamyl alcohol 24:1	1888	Liquid	02s88	1Pint	1	1Pint
21	Formic acid	1779	Liquid	02s88	500ml	1	500ml
22	Hydrochloric Acid fuming 37%	1789	Liquid	02s88	2.5L	1	2.5L
23	3, 3'-Diaminobenzidine	2811	Solid	02s88	5g	1	5g
24	Glufosinate-Ammonium	3077	Solid	02s88	0.1g	3	0.3g
25	Iodine, ACS reagent	2056	Solid	02s88	100g	1	100g
26	Nickel (II) Sulfate Hexahydrate	3077	Solid	02s88	500g	1	500g
27	Phenol	1671	Solid	02s88	100g	1	100g
28	3-Amino-1,2,4-triazole	3077	Solid	02s88	100g	1	100g
29	Hydrogen Chloride solution	1789	Liquid	02s88	100ml	1	100ml
30	Ethanol	1170	Liquid	02s88	2.5L	2	5L
31	Formic acid	1779	Liquid	02s88	500ml	1	500ml
32	N-N-dimethylformamide	2265	Liquid	02s88	500ml	1	500ml
33	Imidazole	3263	Solid	02s88	250g	1	250g
34	Imidazole	3263	Solid	02s88	500g	1	500g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-88

Person-in-charge: Prof. Miao Yansong

Contact Person: Han Xiao

Lab address: SBS-02S-88

Date of update: 02 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Formaldehyde solution	2209	Liquid	02s-88	500ml	1	500ml
2	Acetic Acid (Glacial) 100%	2789	Liquid	02s-88	2.5L	1	2.5L
3	Acetone	1090	Liquid	02s-88	1L	1	1L
4	Acetonitrile	1648	Liquid	02s-88	1L	1	1L
5	Ethanol 99% denatured with 5% Methanol	1170	Liquid	02s-88	5L	1	5L
6	Ethanol 99.5-99.8%	1170	Liquid	02s-88	2.5L	1	2.5L
7	Isopropanol/ 2-propanol	1219	Liquid	02s-88	2.5L	1	2.5L
8	N, N-Dimethylformamide (DMF)	2265	Liquid	02s-88	2.5L	1	2.5L
9	Methanol, ACS	1230	Liquid	02s-88	2.5L	1	2.5L
10	Methanol, Industrial Grade	1230	Liquid	02s-88	5L	1	5L
11	1-Octanol	3082	Liquid	02s-88	100ml	1	100ml
12	Triethylamine	1296	Liquid	02s-88	100ml	1	100ml
13	Dimethyl Sulfoxide	-	Liquid	02s-88	250ml	1	250ml
14	2,2,2-Trifluoroethanol	-	Solid	02s-88	25g	1	25g
15	2,4-Dinitrophenol	-	Solid	02s-88	100g	1	100g
Hazardous Substances (cc)							
16	Acetic Acid (Glacial) 100%	2789	Liquid	02s-88	2.5L	1	2.5L
17	Boric acid	-	solid	02s-88	20g	1	20g
18	Hydrochloric acid fuming 37%	-	liquid	02s-88	1L	1	1L
19	Mercury(II) chloride	-	solid	02s-88		1	
20	Nitric Acid	-	liquid	02s-88	500ml	1	500ml

22	Phenol	-	solid	02s-88	1.5Kg	2	3Kg
23	Potassium hydroxide	-	solid	02s-88		2	
24	Silver nitrate	-	solid	02s-88	25g	1	25g
25	Sodium Azide	-	solid	02s-88	100g	1	100g
26	Sodium fluoride	-	solid	02s-88	250g	1	250g
27	Sodium hydroxide	-	solid	02s-88	1Kg	1	1Kg
28	Sulfuric acid	-	liquid	02s-88	2L	2	4L
29	Benomyl 10mg/ml in DMSO (aliquots)	-	aliquots	02s-88	1ml		1ml
30	Lovastatin	-	solid	02s-88	1g	1	1g
31	Gentamicin	-	solid	02s-88	50g	1	50g
32	Ampicilin	-	solid	02s-88	50g	1	50g
33	Rifampicin	-	solid	02s-88	50g	1	50g
34	Carbenicillin	-	solid	02s-88	250g	1	250g
35	Phenylarsine oxide	-	solid	02s-88	5g	1	5g
36	Sodium hypochlorite solution	-	liquid	02s-88	500ml	1	500ml
37	Phenol solution	-	liquid	02s-88	400ml	1	400ml
38	Phenol saturated with buffer for biotechnology	-	liquid	02s-88	100ml	1	100ml
39	Ammonium hydroxide solution	-	liquid	02s-88	100ml	1	100ml
40	Aqueous Glutaraldehyde EM Grade 25%	-	liquid	02s-88	50ml	1	50ml
41	Osmium Tetroxide Solution	-	liquid	02s-88	5ml	1	5ml
42	Phenol – chloroform – isoamyl alcohol mixture	-	liquid	02s-88	100ml	1	100ml
43	FreeZol reagent	-	liquid	02s-88	50ml	1	50ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-62

Person-in-charge: Prof. Oliver Mueller

Contact Person: Poh Cheng Wei

Lab address: SBS-02S-62

Date of update: 2 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetonitrile	1648	Liquid	02s-62(FC)	1L	1	1L
2	Acetone, >99.8%	1090	Liquid	02s-62(FC)	2.5L	1	2.5L
3	Ethanol (denatured,conc >99%)	1170	Liquid	02s-62(FC)	2.5L	2	5L
4	Ethanol (denatured,conc <99%)	1170	Liquid	02s-62(FC)	5L	1	5L
5	Methanol	1230	Liquid	02s-62(FC)	2.5L	2	5L
6	Methanol	1230	Liquid	02s-62(FC)	5L	1	5L
7	Acetic acid (glacial)	2789	Liquid	02s-62(FC)	2.5L	1	2.5L
8	N, N-Dimethyl Formamide	2265	Liquid	02s-62(FC)	2.5L	1	2.5L
9	Propan 2-ol HPLC grade	1219	Liquid	02s-62(FC)	2.5L	1	2.5L
10	Formic Acid	1779	Liquid	02s-62(FC)	1L	2	2L
11	3-methyl-1-butanol	1105	Liquid	02s-62(FC)	500ml	1	500ml
12	Butane	2037	Gas	02s-62(FC)	190g	3	570g
13	N,N'-Diisopropylcarbodiimide	2929	Liquid	02s-62(FC)	250g	1	250g
Hazardous Substances (cc)							
14	Acetic acid (glacial)	2789	Liquid	02s-62(CC)	2.5L	1	2.5L
15	Boric acid	-	Solid	02s-62(CC)	1kg	1	1kg
16	Formic acid	1779	Liquid	02s-62(CC)	1L	1	1L
17	Hydrochloric acid (37%)	1789	Liquid	02s-62(CC)	2.5L	1	2.5L
18	Potassium hydroxide	1813	Solid	02s-62(CC)	1kg	1	1kg
19	Sodium hydroxide	1823	Solid	02s-62(CC)	1kg	1	1kg
20	Sulfuric acid (99%)	1830	Liquid	02s-62(CC)	100ml	1	100ml
21	Sulfuric acid (95-98%)	1830	Liquid	02s-62(CC)	500ml	1	500ml
22	Sulfuric acid (95-98%)	1830	Liquid	02s-62(CC)	100ml	1	100ml

23	Ferric Chloride	1779	Solid	02s-62(CC)	100g	1	100g
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Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-79

Person-in-charge: Prof. Surajit Bhattacharyya

Contact Person: Neeru Arya

Lab address: SBS-02S-79

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid (Glacial) 100%	2789	Liquid	02s-80	2.5L	1	2.5L
2	Acetic Acid (Glacial) 100%	2789	Liquid	02s-80	100ml	1	100ml
3	Acetone, Analytical Reagent Grade	1090	Liquid	02s-80	2.5L	2	5L
4	Acetonitrile	1648	Liquid	02s-80	100ml	1	100ml
5	Benzonitrile	2224	Liquid	02s-80	100ml	1	100ml
6	DNA Extraction Buffer	-	Liquid	02s-80	1L	1	1L
7	Dimethyl Sulfoxide	-	Liquid	02s-80	100ml	1	100ml
8	Ethanol absolute for analysis, ACS, ISO Reagent	1170	Liquid	02s-80	2.5L	1	2.5L
9	Ethanol (99.86% with 5% methanol industrial)	1986	Liquid	02s-80	5L	1	5L
10	Formic Acid (90%)	1779	Liquid	02s-80	2.5L	1	2.5L
11	Formic Acid (90%)	1779	Liquid	02s-80	250ml	1	250ml
12	Isopropanol/2-propanol (for analysis)	1219	Liquid	02s-80	2.5L	1	2.5L
13	Isopropanol/2-propanol (HPLC Grade)	1219	Liquid	02s-80	2.5L	1	2.5L
14	Methanol	1230	Liquid	02s-80	5	1	5
15	Methanol	1230	Liquid	02s-80	10L	1	10L
16	Pyridine	1282	Liquid	02s-80	25ml	1	25ml
17	TEMED	2372	Liquid	02s-80	5ml	1	5ml
18	Triethylamine	1296	Liquid	02s-80	100ml	1	100ml
Hazardous Substances (cc)							
19	1,1,1,3,3,3-Hexafluoro-2-propanol	2922	Liquid	02s-79	100ml	1	100ml

20	Ammonium Per Sulphate	1444	Solid	02s-79	25g	1	25g
21	Calcium Chloride	-	Solid	02s-79	100g	1	100g
22	Cupric Sulphate	3077	Solid	02s-79	500g	1	500g
23	Cyanogen Bromide	1889	Solid	02s-79			
24	Dimethyl Sulfoxide	-	Liquid	02s-79	1L	1	1L
25	Glutaraldehyde Solution	3265	Liquid	02s-79	250ml	1	250ml
26	Hydrochloride 37%	1789	Liquid	02s-79	50ml	1	50ml
27	Imperial Protein Stain	-	Liquid	02s-79	100ml	1	100ml
28	Imidazole	3263	Solid	02s-79	500g	1	500g
29	Lithium dodecyl sulphate	1325	Solid	02s-79	100g	1	100g
30	Nitric Acid	2031`	Liquid	02s-79	2.5L	1	2.5L
31	1M Nitric Acid	2031	Liquid	02s-80	500ml	1	500ml
32	Nickel Sulphate, 1M	3082	Liquid	02s-79	500ml	1	500ml
33	Phosphorous Acid 98%	2834	Solid	02s-79	500g	1	500g
34	Potassium Hydroxide, Pellets	1813	Solid	02s-79	500g	1	500g
35	Potassium Permanganate, 98%	1490	Solid	02s-79	500g	1	500g
36	Sodium Hydroxide	1823	Solid	02s-79	1Kg	1	1Kg
37	Sodium Hydroxide	1823	Solid	02s-79	1Kg	2	1Kg
38	Sulfuric Acid 95%	1830	Liquid	02s-79	1L	1	1L
39	Trifluoroacetic Acid	2699	Liquid	02s-79	25ml	1	25ml
40	Trifluoroacetic Acid	2699	Liquid	02s-79	250ml	1	250ml
41	Zinc Chloride	2331	Solid	02s-79	100g	2	200g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02s-79

Person-in-charge: Prof. Konstantin Pervushin

Contact Person: Bhargy Sharma/Yevheniia Kuznietsova

Lab address: SBS-02S-79

Date of update: 04 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Number	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	1,2-Ethanedithiol	3071	Liquid	SBS-02s-79 (FC)	25 g	1	25 g
2	Acetic Acid (Glacial) 100%	2789	Liquid	SBS-02s-79 (FC)	2.5 L	1	2.5 L
3	Acetic Anhydride	1715	Liquid	SBS-02s-79 (FC)	100 mL	1	100 mL
4	Acetone, Analytical Reagent Grade	1090	Liquid	SBS-02s-79 (FC)	2.5 L	1	2.5 L
5	Acetonitrile, HPLC Grade	1648	Liquid	SBS-02s-79 (FC)	4 L	2	8 L
6	Acetonitrile, LC Gradient Grade	1648	Liquid	SBS-02s-79 (FC)	5 mL	1	5 mL
7	Ammonium peroxodisulfate	1444	Solid	SBS-02s-79 (FC)	100 mL	1	100 mL
8	Butane	1011	Gas	SBS-02s-79 (FC)	190 g	2	380 g
9	Dichloromethane	1593	Liquid	SBS-02s-79 (FC)	250 mL	1	250 mL
10	Diethyl Ether, Anhydrous (stabilized with BHT)	1155	Liquid	SBS-02s-79 (FC)	500 mL	2	1000 mL
11	Dimethyl sulfoxide (DMSO)	-	Liquid	SBS-02s-79 (FC)	100 mL	2	200 mL
12	Dimethylformamide (DMF)	2265	Liquid	SBS-02s-79 (FC)	2.5 L	1	2.5 L
13	Ethanol absolute for analysis, ACS, ISO, Reagent	1170	Liquid	SBS-02s-79 (FC)	2.5 L	1	2.5 L
14	Ethanol absolute (Molecular Biology Grade)	1170	Liquid	02s-79	100ml	1	100ml
15	Ethanol (99.86% with 5% methanol Industrial)	1170	Liquid	SBS-02s-79 (FC)	5 L	1	5 L
16	Ethanol for molecular biology	1170	Liquid	SBS-02s-79 (FC)	250 mL	1	250 mL
17	Isopropanol / 2-propanol	1219	Liquid	SBS-02s-79 (FC)	2.5 L	1	2.5 L
18	Methanol, HPLC Grade	1230	Liquid	SBS-02s-79 (FC)	500 mL	1	500 mL
19	Methanol >= 99.9% (Analytical Reagent Grade)	1230	Liquid	SBS-02s-79 (FC)	2.5 L	1	2.5 L
20	Methanol	1230	Liquid	SBS-02s-79 (FC)	5 L	1	5 L
21	N,N-Diisopropylcarbodiimide	2929	Liquid	SBS-02s-79 (FC)	250 g	1	250 g

22	Piperidine	2401	Liquid	SBS-02s-79 (FC)	1 L	1	1 L
23	Sigmacote	2924	Liquid	SBS-02s-79 (FC)	5 mL	1	5 mL
24	2,2,2-Trifluoroethanol	1986	Liquid	SBS-02s-79 (FC)	1 L	1	1 L
25	Triisopropylsilane	1993	Liquid	SBS-02s-79 (FC)	20 mL	2	40 mL
26	TEMED	2372	Liquid	SBS-02s-79 (FC)	5 mL	1	5 mL
27	tert-Butanol (secondary / prepared in lab)	1120	Liquid	SBS-02s-79 (FC)	250 mL	1	250 mL
28	Dimethyl sulfoxide (DMSO)	-	Liquid	SBS-02s-79 (FC)	500 mL	1	500 mL
29	Congo red (secondary / prepared in lab)	-	Liquid	SBS-02s-79 (FC)	500 mL	1	500 mL
30	Trimethylamine	1297	Liquid	SBS-02s-79 (FC)	250 mL	1	250 mL
Hazardous Substances (cc)							
31	0.1M DTT	-	Liquid	SBS-02s-79	500ul	1	500ul
32	2 amino 4 chlorobenzoic acid	-	Powder	SBS-02s-79	10mg	1	10mg
33	4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride	3261	Powder	SBS-02s-79	100mg	1	100mg
34	Ampicillin Sodium	-	Powder	SBS-02s-79	50g	1	50g
35	Benzonase Nuclease	-	Liquid	SBS-02s-79	5ku	1	5ku
36	Streptomycin Sulfate	2920	Powder	SBS-02s-79	150g	1	150g
37	TCEP HCl	3261	Powder	SBS-02s-79	5g	1	5g
38	Trypsin from Bovine Pancreas	-	Powder	SBS-02s-79	200mg	1	200mg
39	1,1,1,3,3,3-Hexafluoro-2-propanol (for synthesis)	3265	Liquid	SBS-02s-79 (CC)	100 mL	1	100 mL
40	Acetic Acid-D4 (D, 99.5%)	2789	Liquid	SBS-02s-79 (CC)	50 g	1	50 g
41	Acrylic acid, 99%	2218	Liquid	SBS-02s-79 (CC)	25 g	1	25 g
42	Copper(II) sulfate pentahydrate (ACS Reagent, ≥98.0%)	3077	Solid	SBS-02s-79 (CC)	250 g	1	250 g
43	Iron(II) chloride, 98%	3260	Solid	SBS-02s-79 (CC)	25 g	1	25 g
44	Formic acid 98-100% pure	1779	Liquid	SBS-02s-79 (CC)	1 L	1	1 L
45	Hydrochloric acid, fuming 37%	1789	Liquid	SBS-02s-79 (CC)	2.5 L	1	2.5 L

46	Hydrochloric acid, min. 37%	1789	Liquid	SBS-02s-79 (CC)	2 L	1	2 L
47	Imidazole (Glyoxaline), 99%	3263	Solid	SBS-02s-79 (CC)	500 g	1	500 g
48	Imidazole (ACS Reagent, ≥99% titration)	3263	Solid	SBS-02s-79 (CC)	500 g	1	500 g
49	Imidazole, 99%	3263	Solid	SBS-02s-79 (CC)	2 kg	1	2 kg
50	Iron(III) chloride hexahydrate (ACS Reagent, 97%)	-	Solid	SBS-02s-79 (CC)	500 g	1	500 g
51	Paraformaldehyde	2213	Solid	SBS-02s-79 (CC)	1 kg	1	1 kg
52	Phosphoric acid solution, 85 wt.%	1805	Liquid	SBS-02s-79 (CC)	1 kg	1	1 kg
53	Phosphotungstic acid hydrate, reagent grade	3260	Solid	SBS-02s-79 (CC)	10 g	1	10 g
54	Phosphotungstic acid hydrate (for microscopy)	3260	Solid	SBS-02s-79 (CC)	25 g	1	25 g
55	Potassium hydroxide, pellets GR for analysis	1813	Solid	SBS-02s-79 (CC)	1 kg	1	1 kg
56	Potassium hydroxide	1813	Solid	SBS-02s-79 (CC)	250 g	1	250 g
57	Trifluoroacetic acid	2699	Liquid	SBS-02s-79 (CC)	1000 g	1	1000 g
58	Trifluoroacetic acid (ReagentPlus)	2699	Liquid	SBS-02s-79 (CC)	100 mL	1	100 mL
59	Sodium hydroxide, pellets for analysis	1823	Solid	SBS-02s-79 (CC)	1 kg	1	1 kg
60	Sulfuric acid, 95-97%	1830	Liquid	SBS-02s-79 CC	4 L	1	4 L
61	Zinc chloride (Reagent Grade, ≥98%)	2331	Solid	SBS-02s-79 CC	100 g	1	100 g
62	1,1,1,3,3,3-Hexafluoro-2-propanol (for synthesis)	3265	Liquid	SBS-02s-79 (CC)	25 mL	1	25 mL
63	TCEP (Tris(2-carboxyethyl)phosphine hydrochloride)	3261	Solid	SBS-02s-79 (CC)	100 mg	1	100 mg
64	Trifluoroacetic acid aliquot	2669	Liquid	SBS-02s-79 (CC)	250 mL	1	250 mL
65	Hydrochloric acid aliquot	1789	Liquid	SBS-02s-79 (CC)	250 mL	1	250 mL

66	Sodium hydroxide solution	1823	Liquid	SBS-02s-79 (CC)	500 mL	1	500 mL
67	Acetic acid	2789	Liquid	SBS-02s-79 (CC)	50 mL	1	50 mL
68	Acetic acid solution	2789	Liquid	SBS-02s-79 (CC)	50 mL	1	50 mL
69	Phosphoric acid solution, 20× dilution	1805	Liquid	SBS-02s-79 (CC)	50 mL	1	50 mL
70	3,6-Dioxa-1,8-octanedithiol	2810	Liquid	SBS-02s-79 (PC)	25 g	1	25 g
71	Cadmium chloride hemi(penta-hydrate) (ACS Reagent, 79.5-81%)	2570	Solid	SBS-02s-79 (PC)	100 g	1	100 g
72	Chloramphenicol	-	Solid	SBS-02s-79 (PC)	25 g	1	25 g
73	Chloroform (Analytical Grade)	1888	Liquid	SBS-02s-79 (PC)	2.5 L	1	2.5 L
74	Chloroform-d 99.8% atom% D (contains 0.03% v/v TMS)	1888	Liquid	SBS-02s-79 (PC)	1 mL	4	4 mL
75	Chloroform-D (D,99.8%) + 0.05% v/v TMS	1888	Liquid	SBS-02s-79 (PC)	100 g	1	100 g
76	Dimethyl Sulfoxide (ACS Spectrophotometric grade, 99.9%)	-	Liquid	SBS-02s-79 (PC)	100 mL	1	100 mL
77	Ethidium Bromide Solution 10mg/mL	-	Liquid	SBS-02s-79 (PC)	10 mL	1	10 mL
78	Iron (II) Sulfate Heptahydrate (≥99%)	-	Solid	SBS-02s-79 (PC)	250 g	1	250 g
79	Maleic acid (99%)	3261	Solid	SBS-02s-79 (PC)	250 g	1	250 g
80	Methanol-D4 (D, 99.8%)	1230	Liquid	SBS-02s-79 (PC)	0.6 mL	6	3.6 mL
81	N-phenylthiourea	2811	Solid	SBS-02s-79 (PC)	10 g	1	10 g
82	Nickel (II) Chloride Hexahydrate	3288	Solid	SBS-02s-79 (PC)	100 g	1	100 g
83	Phenylmethane Sulfonyl Fluoride	2923	Solid	SBS-02s-79 (PC)	6 g	1	6 g
84	Phenylmethane Sulfonyl Fluoride	2923	Solid	SBS-02s-79 (PC)	5 g	1	5 g
85	Sodium arsenate dibasic heptahydrate	1685	Solid	SBS-02s-79 (PC)	100 g	1	100 g
86	Sodium azide	1687	Solid	SBS-02s-79 (PC)	100 g	2	200 g
87	Sodium bis(2-ethylhexyl) sulfosuccinate (>99.0%, TLC)	-	Solid	SBS-02s-79 (PC)	50 g	1	50 g
88	Tris(2-carboxyethyl)phosphine hydrochloride (TCEP) solution, 0.5 M	3261	Liquid	SBS-02s-79 (PC)	1 mL	4	4 mL
89	Deuterium chloride, 20% w/w	1050	Liquid	SBS-02s-79 (PC)	50 g	1	50 g

	solution in D2O (D, 99.5%)						
90	Methanol-D4 (D, 99.8%), MagniSolv	1230	Liquid	SBS-02s-79 (PC)	0.5 mL	10	5 mL
91	Chloroform-d with TMS (secondary tube)	1888	Liquid	SBS-02s-79 (PC)	1.5 mL	1	1.5 mL

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-10

Person-in-charge: Prof. Richard She

Contact Person: Khor Kai He

Lab address: SBS-03N-10

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Ethanol	1170	Liquid	03n-10	2.5L	1	2.5L
2	Methanol	1230	Liquid	03n-10	2.5L	2	5L
3	isopropanol	1219	Liquid	03n-10	2.5L	1	2.5L
4	Anhydrous 2-methylbutane	1265	Liquid	03n-10	100ml	1	100ml
5	Xylenes	1307	Liquid	03n-10	4L	1	4L
Hazardous Substances (cc)							
6	Acetic Acid	2790	Liquid	03n-10	2.5L	1	2.5L
7	Acetonitrile	1648	Liquid	03n-10	4L	1	4L
8	N,N,N',N' - Tetramethylethylenediamine	2372	Liquid	03n-10	50ml	1	50ml
9	1,4-Diazabicyclo[2.2.2]octane	2735	Liquid	03n-10	25g	1	25g
10	Sodium metaperiodate	1479	Liquid	03n-10	50g	1	50g
11	Giemsa Stain	1992	Liquid	03n-10	500ml	1	500ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-01

Person-in-charge: Prof. Dong Xueming

Contact Person: Jason Ong Han Meng

Lab address: SBS-03N-01

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid	2789	Liquid	03N-01 (FC)	2.5L	2	5L
2	Acetone	1090	Liquid	03N-01 (FC)	2.5L	3	7.5L
3	Acetone	1090	Liquid	03N-01 (FC)	5L	1	5L
4	Acetonitrile, LCMS Grade	1648	Liquid	03N-01 (FC)	4L	1	4L
5	Ethanol	1170	Liquid	03N-01 (FC)	2.5L	1	2.5L
6	Ethanol (5% Methanol)	1170	Liquid	03N-01 (FC)	5L	2	10L
7	Formic Acid, ACS Grade	1779	Liquid	03N-01 (FC)	100ml	2	200ml
8	Formic Acid, LCMS Grade	1779	Liquid	03N-01 (FC)	25ml	3	75ml
9	Formic Acid, LCMS Grade	1779	Liquid	03N-01 (FC)	5ml	3	15ml
10	Methanol	1230	Liquid	03N-01 (FC)	2.5L	1	2.5L
11	Methanol	1230	Liquid	03N-01 (FC)	4L	1	4L
12	Propan-2-ol (IPA)	1219	Liquid	03N-01 (FC)	2.5L	1	2.5L
Hazardous Substances (cc)							
13	Ammonium thiocyanate	2811	Solid	03N-01	100g	1	100g
14	Ammonium hydroxide	2672	Liquid	03N-01	2L	1	2L
15	Crystal Violet		Solid	03N-01	25g	1	25g
16	Folin & Ciocalteu's phenol reagent	1760	Liquid	03N-01	100ml	1	100ml
17	Formaldehyde solution	2209	Liquid	03N-01	500ml	1	500ml
18	Glutaraldehyde solution	2922	Liquid	03N-01	100ml	1	100ml
19	Hydrochloric acid fuming 37%	1789	Liquid	03N-01	1L	1	1L

20	Iron(III) chloride anhydrous	1773	Solid	03N-01	100g	1	100g
21	Lanthanum(III) nitrate hydrate	1467	Solid	03N-01	100g	1	100g
22	Nitric acid 69%	2031	Liquid	03N-01	500ml	1	500ml
23	Oxalic Acid	3261	Solid	03N-01	50g	1	50g
24	Phosphoric acid	1805	Liquid	03N-01	500g	1	500g
25	Potassium hydroxide	1813	Solid	03N-01	1Kg	1	1Kg
26	Sodium hydroxide	1823	Solid	03N-01	1Kg	1	1Kg
27	Trifluoroacetic Acid	2699	Liquid	03N-01	500ml	1	500ml
28	Trifluoroacetic acid	2699	Liquid	03N-01	100ml	1	100ml
29	Triton™ X-114	-	Liquid	03N-01	250ml	1	250ml
30	Zinc chloride	2331	Solid	03N-01	250g	1	250g
31	Glycine hydrochloride	-	Solid	03N-01	100g	1	100g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-01

Person-in-charge: Prof. Claudio Bussi

Contact Person: Syed Haziq Haykal Bin Syed Azman

Lab address: SBS-03N-01

Date of update: 10 Sept 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Butane mixture (typically n-butane, isobutane, propane mixture)	2037	Gas	03n-01	190g	2	380g
2	Ethanol denatured with methanol	1170	Liquid	03n-01	5L	2	10L
3	Methanol (Methyl alcohol)	1230	Liquid	03n-01	2.5L	1	2.5L
4	Ethanol (Absolute ethanol)	1170	Liquid	03n-01	2.5L	1	2.5L
5	Formaldehyde solution (Methanal solution)	2209	Liquid	03n-01	250ml	1	250ml
6	70% Ethanol solution	1170	Liquid	03n-01	2L	1	2L
Hazardous Substances (cc)							
16	Doxycycline hyclate	3077	Solid	03n-01	5g	1	5g
17	Phorbol 12-myristate 13-acetate	2928	Solid	03n-01	1mg	1	1mg
18	Formaldehyde solution	2209	Liquid	03n-01	250ml	1	250ml
19	Ethylenediaminetetraacetic acid tetrasodium salt dihydrate	-	Solid	03n-01	100g	1	100g
20	Dynasore	3077	Solid	03n-01	1ml	1	1ml
22	DL-dithiothreitol	-	Solid	03n-01	1g	1	1g
23	Triton™ X-100	3082	Liquid	03n-01	5ml	1	5ml
24	BODIPY 493/503 methyl bromide	3261	Solid	03n-01	1mg	1	1mg
25	PROTEOSTAT® Protein aggregation assay	-	Solid	03n-01	1kit	1	1kit
26	Chloroquine (phosphate)	-	Solid	03n-01	100mg	1	100mg
27	TPEN	-	Solid	03n-01	50mg	1	50mg
28	Dihydrorhodamine 123	-	Solid	03n-01	5mg	1	5mg

29	Dihydroethidium	-	Solid	03n-01	10mg	1	10mg
30	Diphenyleneiodonium chloride	3077	Solid	03n-01	10mg	1	10mg
31	ML-SA5	-	Solid	03n-01	5mg	1	5mg
32	CA-074 methyl ester	-	Solid	03n-01	1mg	1	1mg
33	PEG20000	-	Solid	03n-01	500g	1	500g
34	Protease Inhibitor Cocktail	-	Liquid	03n-01	1kit	1	1kit
35	Z-FA-FMK	-	Solid	03n-01	1mg	1	1mg
36	Z-Val-Val-Arg-AMC	-	Solid	03n-01	5mg	1	5mg
37	Filipin complex	3462	Solid	03n-01	25mg	1	25mg
38	Papain inhibitor	-	Solid	03n-01	10mg	1	10mg
39	BAPTA-AM, Ca2+ chelator	-	Solid	03n-01	25mg	1	25mg
40	MDL-28170	-	Solid	03n-01	5mg	1	5mg
41	VH285-PEG4-C4-Cl	-	Liquid	03n-01	5mg	1	5mg
42	RSL3	-	Solid	03n-01	5mg	1	5mg
43	Ferostatin-1	-	Solid	03n-01	5mg	1	5mg
44	ML-210	-	Solid	03n-01	1mg	1	1mg
45	5-Ph-IAA	-	Solid	03n-01	5mg	1	5mg
46	Aminoguanidine hydrochloride	-	Solid	03n-01	5mg	1	5mg
47	Ro-3306	-	Solid	03n-01	5mg	1	5mg
48	ML-SI3	-	Solid	03n-01	5mg	1	5mg
49	Ebastine	-	Solid	03n-01	500mg	1	500mg
50	H2DCFDA	-	Solid	03n-01	100mg	1	100mg
51	Eflornithine	-	Solid	03n-01	100mg	1	100mg
52	Spermidine	3259	Solid	03n-01	100mg	1	100mg
53	Zinc Chloride	2331	Solid	03n-01	100g	1	100g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-13

Person-in-charge: Prof. Lu Lei

Contact Person: Divyanshu Mahajan

Lab address: SBS-03N-13

Date of update: 15 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Number	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid	2789	Liquid	3n-13 (FC)	1.5L	1	1.5L
2	1,4-diazabicyclo[2.2.2]octane	1325	Solid	3n-13 (FC)	100 mL	1	100 mL
3	Paraformaldehyde	2213	Solid	3n-13 (FC)	1 kg	1	1 kg
4	2-propanol	1219	Liquid	3n-13 (FC)	2L	1	2L
5	Acetone	1090	Liquid	3n-13 (FC)	2.4L	1	2.4L
6	Ethanol 99%	1170	Liquid	3n-13 (FC)	3.25L	1	3.25L
7	n-butanol	1120	Liquid	3n-13 (FC)	400mL	1	400mL
8	Methanol	1230	Liquid	3n-13 (FC)	5L	1	5L
9	Ethanol	1170	Liquid	3n-13 (FC)	7.5L	1	7.5L
10	2-Mercaptoethanol	2966	Liquid	3n-13 (FC)	100mL	1	100mL
11	Accustain Eosin Solution Alcoholic	-	Liquid	3n-13 (FC)	40ml	1	40ml
12	Sodium Dodecyl Sulfate	1325	Solid	3n-13 (FC)	500 g	1	500 g
Hazardous Substances (cc)							
16	Sodium Hydroxide	1823	Solid	3n-13 (CC)	100g	2	200g
17	Sodium Hydroxide	1823	Solid	3n-13 (CC)	250g	1	250g
18	Imidazole	3263	Solid	3n-13 (CC)	200g	1	200g
19	Imidazole	3263	Solid	3n-13 (CC)	200g	1	200g
20	Citric Acid	-	Solid	3n-13 (CC)	50 ml	1	50 ml
22	Sodium Azide	1687	Solid	3n-13 (CC)	5g	2	10g
23	Potassium permanganate	1490	Solid	3n-13 (CC)	100g	1	100g
24	Dimethyl sulfoxide	-	Liquid	3n-13 (CC)	500 ml	2	1L

25	Hydrochloric acid	1789	Liquid	3n-13 (CC)	1L	3	1L
26	Paraformaldehyde	2213	Solid	3n-13 (FC)	800 g	1	800 g
27	Trizol	1760	Liquid	3n-13 (FC)	100ml	3	300ml
28	Aluminum chloride 99%	1726	solid	3n-13 (CC)	10g	1	10g
29	Iron(III) nitrate nonahydrate	1466	solid	3n-13 (CC)	50g	1	50g
30	Potassium hydroxide	1813	solid	3n-13 (CC)	500g	1	500g
31	Potassium hydroxide pellets	1813	solid	3n-13 (CC)	100g	1	100g
32	silver nitrate	1493	solid	3n-13 (CC)	50g	1	50g
33	sodium pyrophosphate decahydrate	-	solid	3n-13 (CC)	100g	1	100g
34	Sodium dodecyl sulfate	1325	solid	3n-13 (CC)	500g	1	500g
35	Ammonium Persulfate	1444	solid	3n-13 (CC)	10g	1	10g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-13

Person-in-charge: Prof. Thanabalu Thirumaran

Contact Person: Leong Qin Yi

Lab address: SBS-03N-13

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Ethanol (denatured,conc >99%)	1170	Liquid	03n-13	2.5L	2	5L
2	Ethanol (denatured, conc >99%) with 5% methanol	1170	Liquid	03n-13	5L	2	10L
3	70% ethanol	1170	Liquid	03n-13	5L	1	5L
4	Acetone	1090	Liquid	03n-13	5L	1	5L
5	2- Methyl Butane	1265	Liquid	03n-13	1L	1	1L
6	Isopropanol	1219	Liquid	03n-13	25ml	1	25ml
7	Phenol: Chloroform:isoamyl alcohol (125:24:1)	1888	Liquid	03n-13	100ml	1	100ml
8	Octanol	-	Liquid	03n-13	1L	1	1L
9	2-propanol	1274	Liquid	03n-13	2.5L	2	5L
10	Ammonium sulfide solution	2683	Liquid	03n-13	100ml	1	100ml
11	Sodium borohydride	1426	Solid	03n-13	25g	1	25g
12	Dimethyl sulfoxide	1993	Liquid	03n-13	500ml	1	500ml
13	Phenol:chloroform:Isoamyl alcohol (25:24:1)	2810	Liquid	03n-13	100ml	1	100ml
14	N,N-dimethylformamide	2265	Liquid	03n-13	250ml	1	250ml
15	Glutaldehyde	3265	Liquid	03n-13	125ml	2	125ml
16	Methanol 99%	1230	Liquid	03n-13	5L	1	5L
17	Methanol 99% (for analysis)	1230	Liquid	03n-13	2.5L	1	2.5L
18	Sodium Dodecyl Sulfate	1325	Solid	03n-13	500g	1	500g
19	Ammonium Peroxidilate	-	Solid	03n-13	500g	1	500g
20	(3-Aminopropyl) triethoxysilane	-	Liquid	03n-13	100ml	1	100ml

21	90% acetonitrile +0.03% TFA	-	Liquid	03n-13	500ml	1	500ml
22	Triethoxysilane	2929	Liquid	03n-13	100ml	1	100ml
23	Xylenes	1307	Liquid	03n-13	4L	1	4L
24	60% ethanol	1170	Liquid	03n-13	500ml	1	500ml
25	70% ethanol	1170	Liquid	03n-13	500ml	1	500ml
26	80% ethanol	1170	Liquid	03n-13	500ml	1	500ml
27	90% ethanol	1170	Liquid	03n-13	500ml	1	500ml
28	100% ethanol	1170	Liquid	03n-13	500ml	1	500ml
29	Acetic Acid(glacial)	2789	Liquid	03n-13	2.5L	2	5L
30	Isobutyric Acid	2529	Liquid	03n-13	500ml	1	500ml
31	paraformaldehyde powder 95%	2213	Solid	03n-13	500g	1	500g
32	Staining stock Coomassie blue	-	Liquid	03n-13	100ml	1	100ml
33	Destaining buffer	-	Liquid	03n-13	2.5L	1	2.5L
Hazardous Substances							
34	Concentrated sulphuric acid	1831	Liquid	03n-13	200ml	1	200ml
35	2N sulphuric acid	1831	Liquid	03n-13	200ml	1	200ml
36	Chloroform:isoamyl alcohol (24:1)	1888	Liquid	03n-13	1PT	2	2PT
37	Chloroform	1888	Liquid	03n-13	2.5L	1	2.5L
38	Hydrochloric Acid	1789	Liquid	03n-13	2.5L	1	2.5L
39	5% Sodium Azide	1687	Liquid	03n-13	50ml	1	50ml
40	Formaldehyde, 37%	2209	Liquid	03n-13	2.5L	1	2.5L
41	DPX mountant for histology	1307	Liquid	03n-13	600ml	1	600ml
42	Haematoxylin	-	Liquid	03n-13	250ml	1	250ml
43	Scott's water	-	Liquid	03n-13	1L	1	1L
44	1% acid alcohol, 37% hydrochloric acid, 70% ethanol	-	Liquid	03n-13	20ml	1	20ml
45	37% hydrochloric acid	-	Liquid	03n-13	80ml	1	80ml
46	Trichloroacetic acid	1839	Solid	03n-13	250g	1	250g
47	Imidazole	2267	Solid	03n-13	100g	2	100g
48	Etoposide	-	Solid	03n-13	25mg	1	25mg
49	1-chloro-2,4-dinitrobenzene, 97%	1578	Solid	03n-13	5g	1	5g

50	Congo red	-	Solid	03n-13	25g	1	25g
51	Giemsa stain	1230	Solid	03n-13	10g	1	10g
52	Kanamycin sulfate	-	Solid	03n-13	10g	1	10g
53	Thiourea	2811	Solid	03n-13	50g	1	50g
54	Potassium hydroxide	1813	Solid	03n-13	500g	1	500g
55	Crystal violet	-	Solid	03n-13	25g	2	50g
56	Nonidet P-40 substitute	3082	Liquid	03n-13	500ml	1	500ml
57	37% PFA	-	Liquid	03n-13	20ml	1	20ml
58	Oil red O	-	Solid	03n-13	25g	1	25g
59	(3-Aminopropyl) triethoxysilane	2735	Liquid	03n-13	100ml	1	100ml
60	Xylene:ethanol (50:50)	-	Liquid	03n-13	250ml	1	250ml
61	Xylene	-	Liquid	03n-13	700ml	1	700ml
62	Trizol	1760	Liquid	03n-13	500ml	1	500ml
63	Iron (III) Chloride, 10%	3260	Liquid	03n-13	50ml	1	50ml
64	Potassium Ferricyanide	-	Liquid	03n-13	200ml	1	200ml
65	Phenylmethanesulfanyl fluoride	-	Solid	SBS-03n-13	5g	1	5g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03n-29

Person-in-charge: Assoc Prof. Guillaume Thibault

Contact Person: Prof Guillaume Thibault

Lab address: SBS-03n-29

Date of update: 15 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packagin	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Temed	2372	Liquid	SBS-3n-29	5ml	1	5ml
2	Hexane	1208	Liquid	SBS-3n-29	4L	1	8.0 L
3	Methanol industrial grade	1230	Liquid	SBS-3n-29	5L	4	20.0 L
4	Propan-2-ol	1219	Liquid	SBS-3n-29	2.5L	2	5 L
5	Ethanol	1170	Liquid	SBS-3n-29	2.5L	1	7.5L
6	Ethanol with 5% methanol	1170	Liquid	SBS-3n-29	5.0L	5	25.0L
7	Ethanol 70%	1170	Liquid	SBS-3n-29	500ml	-	0L
8	Acetone	1090	Liquid	SBS-3n-29	2.5L	3	7.5L
9	30% Acetone\H2O	1090	Liquid	SBS-3n-29	100mL	1	100 mL
10	Methanol analytical	1230	Liquid	SBS-3n-29	2.5L, 4L	2, 1	9.0 L
11	Ethanol 99.86%	1170	Liquid	SBS-3n-29	2.5l	2	5L
12	Pyridine	1284	Liquid	SBS-3n-29	500mL	1	500mL
13	Butane cartridge	2037	Gas	SBS-3n-29	190g	2	380g
14	Dimethylformamide	2265	Liquid	SBS-3n-29	100mL	1	100mL
15	Ethyl Acetate	1173	Liquid	SBS-3n-29	1L	1	1L
16	Tetrahydrofuran	2056	Liquid	SBS-3n-29	2.5L, 2L	1, 2	6.5L
17	1-Butanol	1120	Liquid	SBS-3n-29	1.0L	1	1L
18	Diethyl ether	1155	Liquid	SBS-3n-29	2.5L	2	5L
19	Acid acetic glacial	2789	Liquid	SBS-3n-29	2.5L	1	2.5L
20	Chloroform, analytical reagent	1888	Liquid	SBS-3n-29	2.5L	1	2.5L
21	Chloroform, MeOH, acetic acid, acetone	1888	Liquid	SBS-3n-29	300mL	-	300mL

22	Dichloromethane GR	1593	Liquid	SBS-3n-29	2.5L, 1L	1, 1	3.5L
23	30% Acrylamide/Bis solution	3426	Liquid	SBS-3n-29	500mL	1	500mL
24	Isooctane	1262	Liquid	SBS-3n-29	500mL	1	500mL
Petroleum & Petroleum Products							
25	Toluene	1294	Liquid	SBS-3n-29	2.5L, 4L	2, 1	9L
Hazardous Substances							
26	Sodium Hydroxide	1823	Solid	SBS-3n-29	1Kg	1	1Kg
27	Hydrochloric Acid fuming 37%	1789	Liquid	SBS-3n-29	2.5L	1	2.5L
28	Nonidet P40 Substitute	3082	Liquid	SBS-3n-29	1L	1	1L
29	Formaldehyde	1198	Liquid	SBS-3n-29	500mL	1	500mL
30	Paraformaldehyde	2213	Solid	SBS-3n-29	1Kg	1	1Kg
31	Triton X-100	-	Liquid	SBS-3n-29	500mL	1	500mL
32	Ammonia 28-30%	2672	Liquid	SBS-3n-29	1L	2	2L
33	2-methyl amino ethanol	2735	Liquid	SBS-3n-29	250mL	1	250mL
34	Potassium Hydroxide	1813	Solid	SBS-3n-29	1kg	1	1kg
35	DMSO	-	Liquid	SBS-3n-29	100mL, 500mL	1, 1	600ml
36	Ortho phosphoric acid	1805	Liquid	SBS-3n-29	1L	1	1L
37	Sulfuric Acid	1830	Liquid	SBS-3n-29	2.5L	1	2.5L
38	Boric Acid	-	Solid	SBS-3n-29	2.5L	1	2.5L
39	Formic Acid	1779	Liquid	SBS-3n-29	250mL	1	250mL

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-42

Person-in-charge: Prof. Koh Cheng Kee

Contact Person: Sheriff Ryna Shireen

Lab address: SBS-03N-42

Date of update: 10 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid	2789	Liquid	03N-42	2.5L	1	2.5L
2	Acetone	1090	Liquid	03N-42	2.5L	1	2.5L
3	Corn oil	-	Liquid	03N-42(OS)	2L	1	2L
4	Ethanol, 70%	1170	Liquid	03N-42	2L	1	2L
5	Ethanol, 99% (with 5% Methanol)	1170	Liquid	03N-42	5L	1	5L
6	Ethanol, absolute	1170	Liquid	03N-42	2.5L	2	5L
7	Ethanol, anhydrous, EM grade	1170	Liquid	03N-42	450mL	6	2.7L
8	Iso-amyl alcohol	1105	Liquid	03N-42	25mL	1	25mL
9	Methanol	1230	Liquid	03N-42	2.5L	1	2.5L
10	Methanol, Industrial Grade	1230	Liquid	03N-42	5L	1	5L
11	Methanol : Acetic Acid, 3:1	1230	Liquid	03N-42	100mL	1	100mL
12	Paraformaldehyde	2213	Solid	03N-42(F)	1kg	1	1kg
13	Propan-2-ol (Isopropanol), HPLC grade	1219	Liquid	03N-42	2.5L	1	2.5L
14	Propylene Oxide	1280	Liquid	03N-42	250mL	1	250mL
15	Acetic Acid	2789	Liquid	03N-42	2.5L	1	2.5L
16	Amylamine	1106	Liquid	03N-42	50mL	1	50mL
17	Methanol	1230	Liquid	03N-42	2.5L	1	2.5L
18	Methylene Blue Solution	-	Liquid	03N-42	250mL	1	250mL
19	Ethyl alcohol, pure	1170	Liquid	03N-42	500mL	2	1L
Hazardous Substances (cc)							
20	Glutaraldehyde solution	2922	Liquid	03N-42	1L	1	1L

21	Hydrochloric Acid Fuming 37%	1789	Liquid	03N-42	2.5L	1	2.5L
22	Igepal CA-630	-	Liquid	03N-42	100ml	1	100ml
23	Imidazole	3263	Solid	03N-42	500g	1	500g
24	NP-40	-	Liquid	03N-42	500ml	1	500ml
25	PMSF	2928	Solid	03N-42	25g	1	25g
26	Silver nitrate	1493	Solid	03N-42	25g	1	25g
27	Trifluoroacetic Acid 99+% spectrophotometric grade	2699	Solid	03N-42	100ml	1	100ml
28	TritonX-100	3082	Liquid	03N-42	500ml	1	500ml
29	2-Mercaptoethanol	2966	Liquid	03N-42	100ml	1	100ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-42

Person-in-charge: Prof. Li Hoi Yeung

Contact Person: Jeraldine Poh Jie Min

Lab address: SBS-03N-42

Date of update: 8 September 2027

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic acid (Glacial), 100%	2789	Liquid	03n-33	2.5L	1	2.5L
2	Acetone	1090	Liquid	03n-33	2.5L	1	2.5L
3	Acetonitrile	1648	Liquid	03n-33	4L	1	4L
4	1-Butanol	1120	Liquid	03n-33	5L	1	5L
5	N-N dimethylformamide, 99%	2265	Liquid	03n-33	1L	1	1L
6	DPX mountant for histology	1307	Liquid	03n-33	500ml	2	1L
7	Ethanol, 99% (5% methanol, industrial grade)	1170	Liquid	03n-33	5L	1	5L
8	Ethanol (absolute, analytical grade)	1170	Liquid	03n-33	2.5L	2	5L
9	Ethyl acetate	1173	Liquid	03n-33	2.5L	1	2.5L
10	Isopropanol (2-Propanol)	1219	Liquid	03n-33	2.5L	1	2.5L
11	Methanol (industrial grade)	1230	Liquid	03n-33	5L	2	10L
12	Methanol (ACS, analytical grade)	1230	Liquid	03n-33	2.5L	1	2.5L
13	Sodium borohydride	1426	Solid	03n-33	100g	1	100g
14	Butane gas canisters	2037	Liquid	03n-33	190g	3	570g
15	Paraffin wax	-	Solid	03n-33	1kg	8	8kg
16	Xylene (Xylol, analytical grade)	1307	Liquid	03n-33	2.5L	1	2.5L
Hazardous Substances (cc)							
17	Boric acid	-	Solid	03n-33	1kg	2	2kg
18	Chloroform	1888	Liquid	03n-33	2.5L	1	2.5L
19	Crystal violet	3077	Solid	03n-33	100g	1	100g

20	Ethanolamine	2491	Liquid	03n-33	500ml	1	500ml
21	Formaldehyde, 37-41%	2209	Liquid	03n-33	2.5L	1	2.5L
22	Paraformaldehyde	2213	Solid	03n-33	2.5kg	1	2.5kg
23	Paraformaldehyde, 4%	2213	Liquid	03n-33	250ml	1	250ml
24	Potassium hydroxide	1813	Solid	03n-33	1kg	1	1kg
25	Sodium azide	1687	Solid	03n-33	25g	1	25g
26	Sodium dodecyl sulfate	1325	Solid	03n-33	500g	3	1.5kg
27	Sodium hydroxide	1823	Solid	03n-33	1kg	1	1kg
28	Sodium iodate	1479	Solid	03n-33	100g	1	100g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03S-45

Person-in-charge: Prof. Gerhard Gruber

Contact Person: Ragunanthan Priya

Lab address: SBS-03S - 45

Date of update: 11/09/2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid (Glacial) 100%	2789	Liquid	SBS-03s-45	2.5 L	1	100 ml
2	Isopropanol/ 2-propanol	1219	Liquid	SBS-03s-45	2.5 L	1	1 L
3	1-Butanol	1120	Liquid	SBS-03s-45	0.5 L	1	1 L
4	Acetone, >99.8%	1090	Liquid	SBS-03s-45	2.5 L	1	30 ml
5	Ethanol (denatured, conc >99%)	1170	Liquid	SBS-03s-45	2.5 L	1	2.5L
6	Isopropanol/ 2-propanol	1219	Liquid	SBS-03s-45	2.5 L	1	2.5L
7	Methanol (>99%)	1230	Liquid	SBS-03s-45	2.5 L	1	0.5 L
8	Acetonitrile	1648	Liquid	SBS-03s-45	2.5 L	1	2.0 L
9	Hydrochloric acid	1789	Liquid	SBS-03s-45	2.5 L	1 Unit	3 L
10	Dimethyl sulfoxide (DMSO)	-	Liquid	SBS-03s-45	1 L	1	1L
11	Dimethylformamide (DMF)	2265	Liquid	SBS-03s-45	40 ml	1	40ml
12	Staining solutions	-	Liquid	SBS-03s-45	1 L	3	3 L
13	Sodium dodecyl sulphate	1325	Powder	SBS-03s-45	500g	1	500g
14	Sodium dithionite (Sodium hydrosulfite)	1384	Liquid	SBS-03s-45	50 ml	1	50 ml
Petroleum & Petroleum Products							
15	Petroleum spirit	1268	Liquid	SBS-03s-45	190 g	6	1140 g
Hazardous Substances							
16	40% acrylamide	3426	Liquid	SBS-03s-45	500 ml	1	1 L
17	2% Bis solution	-	Liquid	SBS-03s-45	500 ml	1	-

18	30% Acrylamine/Bis solution	3426	Liquid	SBS-03s-45	500 ml	1	1 L
19	Dimethyl sulfoxide (DMSO)	-	Liquid	SBS-03s-45	900 ml	1	1 L
20	Dithiothreitol (DTT)	-	Powder	SBS-03s-45	5 g	1	5 g
21	Ethidium bromide (EtBr)	2810	Liquid	SBS-03s-45	10 ml	1	5 ml
22	Ferric chloride/ Iron chloride	1773	Powder	SBS-03s-45	50 g	1	50 g
23	Glycerol	-	Liquid	SBS-03s-45	1 l	1	250 ml
24	Hydrochloric acid (37%)	1789	Liquid	SBS-03s-45	2 l	1	2 l
25	Imidazole	3263	Powder	SBS-03s-45	500 g	1	250 g
26	Kanamycin Sulphate powder	-	Powder	SBS-03s-45	50 g	1	125 g
27	Pefabloc	3261	Powder	SBS-03s-45	1 g	1	8 g
28	Potassium Ferricyanide (III)	-	Powder	SBS-03s-45	50 g	1	50 g
29	Potassium hydroxide	1813	Pellets	SBS-03s-45	1 kg	1	2 kg
30	Sodium Hydroxide, Analysis Grade Pellets 99%	1823	Pellets	SBS-03s-45	1 kg	1	0.5 kg
31	Phenylmethanesulfonyl fluoride (PMSF)	2928	Powder	SBS-03s-45	100 g	1	100 g
32	Trifluoroacetic acid		Liquid	SBS-03s-45	100 ml	1	100 ml
33	Ammonium Persulfate	1444	Liquid	SBS-03s-45	5 ml	1	20 ml
34	Chloramphenicol(antibiotics)	-	Powder	SBS-03s-45	50 g	1	100 g
35	Triton X-100		Liquid	SBS-03s-45	100 ml	1	25 g
36	TEMED	2372	Liquid	SBS-03s-45	10 ml	1	5 ml
37	β-mercaptoethanol	2966	Liquid	SBS-03s-45	50 ml	1	250 ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03S-54

Person-in-charge: Prof. Liang Zhao Xun

Contact Person: Tan Swee Ching

Lab address: SBS-03S - 54

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Ethanol 99% with 5% methanol	1987	Liquid	03s-54	5L	4	20L
2	Ethanol ACS Grade	1170	Liquid	03s-54	2.5	3	7.5L
3	Dimethyl Sulfoxide (DMSO)	-	Liquid	03s-54	1L	1	1L
4	Oxalyl chloride	3265	Liquid	03s-54	25g	1	25g
5	Diethyl Ether	1155	Liquid	03s-54	3.5L	1	3.5L
6	Sodium Methoxide	1431	powder	03s-54	100g	1	100g
7	Acetonitrile	1648	Liquid	03s-54	4L	4	16L
8	Dichloromethane	1593	Liquid	03s-54	2.75L	1	2.75L
9	Dimethylformamide	2265	Liquid	03s-54	4L	1	4L
10	Methanol	1230	Liquid	03s-54	4L	4	16L
11	Ethyl Acetate	1173	Liquid	03s-54	4L	4	16L
12	Triethylamine	1296	Liquid	03s-54	50ml	2	100ml
13	En3hance	-	Liquid	03s-54	1L	1	1L
14	Tert-butanol	1120	Liquid	03s-54	1L	1	25g
15	1,4 Dioxane	1165	Liquid	03s-54	100g	1	350ml
16	Acetone	1090	Liquid	03s-54	4L	2	8L
17	1-Butanol	1120	Liquid	03s-54	1L	1	1L
18	Sodium borohydride	1426	Powder	03s-54	25g	1	25g
19	Pyridine, for HPLC	1282	Liquid	03s-54	350ml	1	350ml
20	Tetramethyl Orthosilicate 99%	2606	Powder	03s-54	500g	1	500g
22	1-Hexanol	2282	Liquid	03s-54	100ml	1	100ml
23	Ninhydrin	-	Powder	03s-54	100g	1	100g

24	Trichloroethylene	1710	Liquid	03s-54	1L	1	1L
25	Isopropanol	1219	Liquid	03s-54	5L	1	5L
26	Tetrahydrofuran	2056	Liquid	03s-54	3.6L	1	3.6L
27	Cyclopentanone	2245	Liquid	03s-54	250ml	1	250ml
28	decanal	3082	Powder	03s-54	25g	1	25g
29	Methyl hexanoate	3272	Liquid	03s-54	100ml	1	100ml
30	Butane Gas Cartridges	2037	Gas	03s-54			
31	Hexane	1208	Liquid	03s-54	4L	1	4L
32	Methyl formate	1243	Liquid	03s-54	10g	1	10g
33	Zinc powder	1436	Powder	03s-54	300g	1	300g
34	2,4-Dinitrophenylhydrazine	3380	powder	03s-54	25g	1	25g
35	3-buten-2-ol	1987	Liquid	03s-54	5g	1	5g
36	4,4'-Azobis(4-cyanovaleric acid)	3236	Solid	03s-54	25g	1	25g
37	1M Tetrabutylammonium fluoride in THF solution	2924	Liquid	03s-54	100ml	1	100ml
38	Zinc dust	1436	Solid	03s-54	100g	1	100g
39	DMAP	2811	Solid	03s-54	5g	1	5g
40	Grubbs catalyst M204	1325	Solid	03s-54	100mg	1	100mg
41	1,3-cyclohexandione	-	Solid	03s-54	100g	1	100g
42	Sodium hydride	1427	Solid	03s-54	100g	1	100g
43	Potassium tert-butoxide, 1M in THF	2924	Liquid	03s-54	50ml	1	50ml
44	Magnesium (Turnings)	1869	Solid	03s-54	25g	1	25g
45	2,4-hexadienal	2922	Liquid	03s-54	25ml	1	25ml
46	Tert-butyl acetate	1123	Liquid	03s-54	25ml	1	25ml
47	2-Methyl-1-pyrroline	1993	Liquid	03s-54	5ml	1	5ml
48	Triethyl phosphite	2323	Liquid	03s-54	100ml	1	100ml
49	Heptaldehyde	3056	Liquid	03s-54	100ml	1	100ml
50	1-Bromoheptane	1993	Liquid	03s-54	100ml	1	100ml
51	Dess-Martin periodinane	1479	Liquid	03s-54	5g	1	5g
52	Hexanal	1207	Liquid	03s-54	100ml	1	100ml

Hazardous Substances (cc)							
53	Oxalyl chloride	3265	Liquid	03s-54	25g	1	25g
54	Diethyl Ether	1155	Liquid	03s-54	3.5L	1	3.5L
55	Acetonitrile	1648	Liquid	03s-54	4L	4	16L
56	Dichloromethane	1593	Liquid	03s-54	2.75L	1	2.75L
57	Dimethylfomamide	2265	Liquid	03s-54	4L	1	4L
58	Methanol	1230	Liquid	03s-54	4L	4	16L
59	1,4 Dioxane	1165	Liquid	03s-54	100g	1	100g
60	Sodium borohydride	1426	Powder	03s-54	25g	1	25g
61	Trichloroethylene	1710	Liquid	03s-54	1L	1	1L
62	Tetrahydrofuran	2056	Liquid	03s-54	3.6L	1	3.6L
63	Sodium hydride	1427	Solid	03s-54	100g	1	100g
64	Triethyl phosphite	2323	Liquid	03s-54	100ml	1	100ml
65	Sulfuric acid	1830	Liquid	03s-54	50ml	1	50ml
66	Acetic Anhydride (1mol/L in DCM)	2922	Liquid	03s-54	100ml	2	100ml
67	Potassium Hydroxide	1813	Solid	03s-54	500g	1	500g
68	Hydrochloric acid	1789	Liquid	03s-54	100ml / 2.5L	2	2.6L
69	Ammonium hydroxide	2672	Liquid	03s-54	100 ml/ 1L	2	1.1L
70	Chloroacetonitrile	2668	Liquid	03s-54	100ml	1	100ml
71	Formic acid	1779	Liquid	03s-54	500g	1	500g
72	1,2 Dihydroxybenzene	2811	Solid	03s-54	100g	1	100g
73	Nitric acid 65%	2031	Liquid	03s-54	1L	3	3L
74	Phosphorus oxychloride	1810	Liquid	03s-54	500ml	1	500ml
75	Phosphoric acid	1805	Liquid	03s-54	500ml	1	500ml
76	Crotonic acid	2823	solid	03s-54	25g	1	25g
77	DCC	2811	Solid	03s-54	25g	1	25g
78	Methyl bromoacetate	2643	Liquid	03s-54	25g	1	25g
79	Ethyl-(R)-(-)-3-hydroxybutyrate	-	Liquid	03s-54	1g	1	1g
80	Furoic acid	3261	solid	03s-54	5g	1	5g
81	Sodium hydroxide	1823	solid	03s-54	1kg	3	3kg

82	Ammonia 25%	2672	Liquid	03s-54	1L	1	1L
83	Glacial Acetic Acid	2789	Liquid	03s-54	5L	1	5L
84	Trichloroacetic acid	2564	solid	03s-54	250mg	1	250mg
85	Iron (III) chloride hexahydrate, 98%	3260	solid	03s-54	500g	1	500g
86	Chloroform	1888	Liquid	03s-54	2.5L	1	2.5L
87	Cadmium chloride hydrate, 98%	2570	Solid	03s-54	50g	1	50g
88	Sodium cacodylate trihydrate	1688	Solid	03s-54	25g	1	25g
89	Pentachlorophenol	3155	Solid	03s-54	5g	1	5g
90	Sodium fluoride	1690	Solid	03s-54	500g	1	500g
91	Sodium cacodylate	1688	Solid	03s-54	25g	1	25g
92	Boric acid	-	Solid	03s-54	500g	1	500g
93	Methylviologendichloride hydrate	2811	Solid	03s-54	250mg	1	250mg
94	Imidazole	3263	Solid	03s-54	1kg	1	1kg
95	PMSF	2928	Solid	03s-54	25g	1	25g
96	Potassium ferricyanide(III)	3077	Solid	03s-54	250g	1	250g
97	Sodium propionate	-	Solid	03s-54	1kg	1	1kg
98	3-Hydroxytyramine hydrochloride	3077	Solid	03s-54	5g	1	5g
99	Etoposide	2811	Solid	03s-54	25mg	1	25mg
100	Acetamide	-	Solid	03s-54	100g	1	100g
101	2-Aminoethanethiol hydrochloride	3335	Solid	03s-54	25g	1	25g
102	Biphenyl	3077	Solid	03s-54	25g	1	25g
103	Calcium nitrate tetrahydrate, 99%	1454	Solid	03s-54	500g	1	500g
104	Sodium tetraborate	-	Solid	03s-54	100g	1	100g
105	Triethylborane, 1M in hexane	3399	Liquid	03s-54	100ml	1	100ml
106	Sodium tetraborate decahydrate	-	Solid	03s-54	1kg	1	1kg
107	Diethyl chlorophosphate	2927	Liquid	03s-55	25g	1	25g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03S-58

Person-in-charge: Prof. Xiao Tinshu

Contact Person: Tam Ee Hong

Lab address: SBS-03S - 58

Date of update: 4 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Propanol	1219	Liquid	03s-58(FC)	2.5L	1	2.5L
2	Ethanol, 99% (5% Methanol)	1987	Liquid	03s-58(FC)	5L	2	10L
3	Ethanol, AR	1170	Liquid	03s-58(FC)	2.5L	1	2.5L
4	Methanol, Industrail Grade	1230	Liquid	03s-58(FC)	5L	3	15L
Hazardous Substances (cc)							
5	Acetic acid (glacial) 100%	2789	Liquid	03s-58	2.5L	2	5L
6	Hydrochloric acid fuming 37%	1789	Liquid	03s-58	2.5L	2	5L
7	Potassium hydroxide	1813	Solid	03s-58	1kg	1	1kg
8	Sodium azide	1687	Solid	03s-58	25g	1	25g
9	Sodium hydroxide	1824	Solid	03s-58	1kg	1	1kg

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03S-58

Person-in-charge: Prof. Ding Lianggong

Contact Person: Jin Kaiyan

Lab address: SBS-03S - 58

Date of update: 11 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	DMSO	-	Liquid	3s-58	2.5L	1	2.5L
2	Methanol	1230	Liquid	3s-58	2.5L	1	2.5L
3	2-Propanol	1219	Liquid	3s-58	2.5L	1	2.5L
4	Ethanol absolute EMPLURA®	1170	Liquid	3s-58	2.5L	1	2.5L
5	Ethanol absolute EMPLURA®	1170	Liquid	3s-58	2.5L	1	2.5L
6	TEMED (tetramethylethylenediamine)	2924	Liquid	3s-58	50ml	1	50ml
7	Acetic acid (glacial) 100%	2789	Liquid	3s-58	2.5L	1	2.5L
8	Sodium Hydroxide	1823	Solid	3s-58	1kg	1	1kg
9	Ethanol	1170	Liquid	3s-58	5L	1	5L
10	DMSO	-	Liquid	3s-58	1L	1	1L
Hazardous Substances (cc)							
11	Itaconic acid	-	Solid	3s-58	100g	1	100g
12	Liquid Bleach 5X Concentrate, 5 litre [Near F6]	1791	Liquid	3s-58	5L	1	5L
13	Hydrogen peroxide 30%	2014	Liquid	3s-58	1L	1	1L
14	Hydrochloric acid fuming 37%	1789	Liquid	3s-58	2.5L	1	2.5L
15	TRIzol™ Reagent	2023	Liquid	3s-58	200ml	3	200ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03S-77

Person-in-charge: Prof. Xiao Yufeng

Contact Person: Liu Yi

Lab address: SBS-03S - 77

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetonitrile-d3	1648	Liquid	03s-77	25g	1	25g
2	acetyl chloride	1717	Liquid	03s-77	100g	1	100g
3	Boron trifluoride propanol complex	3286	Liquid	03s-77	100ml	1	100ml
4	Ethylamine solution 2.0M in methanol	1992	Liquid	03s-77	100ml	1	100ml
5	Isopropylamin	1221	Solid	03s-77	25g	1	25g
6	Lithium aluminum hydride	1410	Solid	03s-77	25g	1	25g
7	Magnesium, Mg	1869	Solid	03s-77	250g	1	250g
8	Methyl sulfide	1164	Liquid	03s-77	25ml	1	25ml
9	Palladium hydroxide, 20 wt. % Pd on carbon, wet	1479	Solid	03s-77	10g	1	10g
10	Palladium on carbon	-	Solid	03s-77	10g	4	40g
11	Platinum 1% and vanadium 2%, on activated carbon (50-70% wetted powder) Evonik Noblyst® P8078	-	Solid	03s-77	5g	2	10g
12	Potassium tert-butoxide 1M in THF	2924	Solid	03s-77	100g	1	100g
13	propargyl bromide solution	2345	Solid	03s-77	25g	1	25g
14	Propylamine	1277	Liquid	03s-77	500ml	1	500ml
15	Pyridine	1282	Solid	03s-77	500g	1	500g
16	pyrrolidine	1922	Solid	03s-77	100g	1	100g
17	Rhodium on carbon	3089	Solid	03s-77	1g	2	2g
18	Ruthenium on carbon	3178	Solid	03s-77	5g	1	5g
19	Sodium borohydride	1426	Solid	03s-77	25g	1	25g
20	tert-Butyl nitrite, 90%	2350	Liquid	03s-77	100ml	1	100ml

22	Tetramethylsilane	2749	Liquid	03s-77	25ml	1	25ml
23	Triethylamine	1296	Liquid	03s-77	500ml	1	500ml
24	valeraldehyde	2058	Liquid	03s-77	250ml	1	250ml
25	Zinc	3077	Solid	03s-77	250ml	1	250ml
26	Hydrazin monohydrat	2030	Solid	03s-77	100g	1	100g
27	Acetone	1090	Liquid	03s-78	500g	2	1kg
28	methanol	1230	Liquid	03s-78	4L	2	8L
29	Hexanes	1208	Liquid	03s-78	4L	2	8L
30	ethyl acetate	1173	Liquid	03s-78	4L	2	8L
31	Acetonitrile	1648	Liquid	03s-78	4L	1	4L
32	Dimethylformamide	2265	Liquid	03s-78	3L	1	3L
33	Ethanol	1170	Liquid	03s-78	4L	1	4L
Hazardous Substances (cc)							
34	Boron trifluoride propanol complex	1744	Liquid	03s-77	100ml	1	Liquid
35	Formaldehyde	2209	Solid	03s-77	100ml	1	Liquid
36	Formic acid (for LC/MS)	1779	Liquid	03s-77	500g	1	Solid
37	Hydrazin monohydrat	2030	Liquid	03s-77	25ml	1	Liquid
38	Hydrazine hydrate solution	2030	Liquid	03s-77	100g	1	Liquid
39	Hydrochloric acid 4M in 1,4-Dioxane	-	Liquid	03s-77	100g	1	Liquid
40	potassium fluoride	1812	Solid	03s-77	100ml	1	Liquid
41	sodium azide	1687	Solid	03s-77	500g	1	Solid
42	Thionyl chloride	1836	Liquid	03s-77	25g	1	Solid

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03S-86

Person-in-charge: Prof. Liu Chuan Fa

Contact Person: Shanmugavel Gnanakalai

Lab address: SBS-03S - 86

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Amino-5-cyanopyridine	UN3439	Solid	03S-86A1	25g	1	25g
2	2-aminoethanol	UN2491	Liquid	A1	500ml	1	500ml
3	3-aminobenzenesulfonamide	UN1759	Solid	A1	5g	1	5g
4	2-acetylpyridine	UN1993	Solid	A1	25g	1	25g
5	2-(2-aminoethoxy)ethanol	UN2735	Solid	A1	100g	1	100g
6	2-amino-5-diethylaminopentane	UN2946	Solid	A1	5g	1	5g
7	R- 1-amino-2-propanol	UN2735	Solid	A2	5g	1	5g
8	3-acetylpyridine	UN2810	Solid	A2	25g	1	25g
9	N-acetyethanolamine	-	Solid	A2	100g	1	100g
10	aminoacetaldehyde dimethylacetate	UN2924	Solid	A2	100g	1	100g
11	4-(3-aminopropyl)morpholine	UN2735	Liquid	A2	100ml	1	100ml
12	2-Amino-2-methyl-1-propanol	-	Liquid	A2	100ml	1	100ml
13	4-acetylpyridine	UN2810	Solid	A2	25g	1	25g
14	2-aminopyridine	UN2671	Solid	A2	5g	1	5g
15	(2-amino-pyridine-4-yl)-methanol	-	Solid	A2	5g	1	5g
16	3-Amino-2-pyridinecarboxylic acid	-	Solid	A2	1g	1	1g
17	4-Amino-1-propanol	-	Solid	A2	25g	1	25g
18	3-Amino-1-propanol	UN2735	Solid	A2; R2-A	25g	1	25g
19	Acetylacetone	UN2310	Liquid	A to N; A2	100ml	1	100ml
20	5-Amino-2-pyridinecarbonitrite	-	Solid	A2	5g	1	5g
21	2,2'-Bipyridine	UN2811	Solid	B1	25g	1	25g
22	bis(pinacalato)diborane	-	Solid	B1	5g	1	5g

23	Benzoyl chloride on polystyrene, 0.8-1.0 mmol/g	-	Solid	B1	5g	1	5g
24	bromoacetaldehyde diethylacetal	UN1992	Solid	B1	100g	1	100g
25	Sodium 2-bromoethanesulphonate	-	Solid	B1	25g	1	25g
26	benzenethiol sodium salt	-	Solid	B2	10g	1	10g
27	2-Bromoethanol	UN2810	Liquid	B2; R2-B	100ml	1	100ml
28	bis(trifluoroacetoxy)iodobenzene	-	Solid	B3	10g	1	10g
29	3-bromo-1-propanol	-	Liquid	B3; R2-B	5ml	1	5ml
30	Benzenesulfonyl chloride	UN2225	Solid	B3	100g	1	100g
31	Bromoacetonitrile	UN3276	Solid	B3; R6-B	25g	1	25g
32	Benzenesulfonyl Chloride	UN2225	Solid	B3	100g	1	100g
33	benzyl chloride	UN1738	Solid	B3	50g	1	50g
34	1,3-Bis(bromomethyl)benzene	-	Solid	B3	25g	1	25g
35	Benzene-1,3,5-triyltrimethanol	-	Solid	B3	5g	1	5g
36	chlorosulfonylacetyl chloride	-	Solid	C	1g	1	1g
37	2-Cyclopropylethanol	-	Solid	C	10g	1	10g
38	(Chloromethanetriyl)tribenzene	-	Solid	C	50g	1	50g
39	2-(chloromethyl)pyridine HCl	UN1759	Solid	C	25g	1	25g
40	4-chlorobenzenesulfonamide	-	Solid	C	100g	1	100g
41	4-chloro-1-butanol	UN1993	Solid	C	50g	1	50g
42	Acetyl chloride	UN1717	Liquid	ACIDS; R6	100ml	1	100ml
43	p- Toluenesulfonyl chloride	UN3261	Solid	ACIDS	250g	1	250g
44	Acrylic acid	UN2218	Solid	A to N; ACIDS			
45	p-toluenesulfonyl chloride	UN3261	Solid	ACIDS	500g	1	500g
46	4(dimethylamino)-pyridine	UN2811	Solid	D1	100g	1	100g
47	4,4'-Di-tert-butyl-2,2'-bipyridine	-	Solid	D1	5g	1	5g
48	diethylacetone-1,3-dicarboxylate	-	Solid	D1	250g	1	250g
49	4-(dimethylamino)pyridine	UN2811	Solid	D1	50g	1	50g
50	(diacetoxyiodo)benzene	-	Solid	D1; D2	100g	1	100g
51	(diacetoxyiodo)benzene	-	Solid	D1; D2	100g	1	100g
52	di(ethyleneglycol)vinylether	-	Liquid	D1	10ml	1	10ml
53	4-(dimethylamino)pyridine	UN2811	Solid	D1	100g	1	100g

54	4-(dimethylamino)pyridine	UN2811	Solid	D1	25g	1	25g
55	1,4-Bis(bromomethyl)benzene	-	Solid	D2	5g	1	5g
56	1,5-Dibromopentane	-	Solid	D2	25g	1	25g
57	3,5-dinitrobenzyl chloride	-	Solid	D2	10g	1	10g
58	Heptane-1,7-diamine	UN3259	Solid	D2	5g	1	5g
59	(Diacetoxyiodo)benzene	-	Solid	D1; D2	100g	1	100g
60	2,4-dinitrobenzenesulfonyl chloride	UN3096	Solid	D2	25g	1	25g
61	(diacetoxyiodo)benzene	-	Solid	D1; D2	25g	1	25g
62	diethanolamine	UN3267	Solid	D2	250g	1	250g
63	3,5-Dichloropyridine	-	Solid	D2	25g	1	25g
64	1,3-diamino-2-propanol	UN3259	Solid	D2	10g	1	10g
65	1,4-Dibromobenzene	-	Solid	D3	100g	1	100g
66	N-Ethynyl-N,4-dimethylbenzenesulfonamide	-	Solid	E	25g	1	25g
67	formaldehyde sodiumbisulfate addition compound	-	Solid	F	100g	1	100g
68	9-Fluorenylmethanol	-	Solid	F; R1	100g	1	100g
69	formaldehyde sodiumbisulfate addition compound	-	Solid	F	100g	1	100g
70	formaldehyde solution 37% in water	UN2209	Liquid	F	25ml	1	25ml
71	4-Fluoronitrobenzene	UN2811	Solid	F	25g	1	25g
72	9-Fluorenylmethanol	-	Solid	F; R1	25g	1	25g
73	Hydrazinecarboxamide hydrochloride	UN2811	Solid	H1	100g	1	100g
74	1,1,1,3,3,3-Hexafluoro-2-propanol	UN1760	Solid	H2	100g	1	100g
75	1-iodopentane	UN1993	Solid	I	25g	1	25g
76	1-Iodoheptane	-	Solid	I	25g	1	25g
77	4-imidazolemethanol	-	Solid	I	5g	1	5g
78	1H-Indole-2-methanol	-	Solid	I	1g	1	1g
79	3-Iodopyridine	-	Solid	Room Temp	10g	1	10g
80	4-morpholinecarbonyl chloride	-	Solid	M1	25g	1	25g
81	2-methoxybenzenethiol	-	Liquid	M1	5ml	1	5ml
82	3-mercapto-1-propanol	UN2810	Solid	M1	5g	1	5g

83	(4-methylphenyl)-diphenylmethanol	-	Solid	M2	100g	1	100g
84	2-(methylamino)ethanol	UN2735	Liquid	M2	250ml	1	250ml
85	Methylamine (2 M in THF)	UN2924	Liquid	M2	100ml	1	100ml
86	(S)-(-)-1-Methyl-2-pyrrolidinemethanol	-	Solid	M2	25g	1	25g
87	4-Methylmorpholine N-oxide monohydrate	-	Solid	M3	100g	1	100g
88	4-methoxyphenyl methanol	-	Solid	M3	25g	1	25g
89	4-nitrobenzenesulfonyl chloride	UN3261	Solid	N	100g	1	100g
90	2-nitrobenzenesulfonyl chloride	UN3261	Solid	N	100g	1	100g
91	2-nitrobenzenesulfonyl chloride	UN3261	Solid	N	25g	1	25g
92	4-nitrobenzene sulfonamide	-	Solid	N	5g	1	5g
93	5-norbornene-2-methanol	-	Solid	N	5g	1	5g
94	(1R,2R)-N,N'-Dimethyl-1,2-cyclohexanediamine	UN3259	Solid	N	5g	1	5g
95	5-nitro-m-xylene-alpha,alpha-diol	-	Solid	N	10g	1	10g
96	5-nitro-m-xylene-alpha,alpha-diol	-	Solid	N	1g	1	1g
97	2-(N,N-Bis(trifluoromethanesulfonyl)amino)-5-chloropyridine	-	Solid	N	25g	1	25g
98	4-Nitrobenzene-1,2-diamine	UN1673	Solid	N	100g	1	100g
99	poly(ethyleneglycol)bis(carboxymethyl) ether	-	Liquid	P	250ml	1	250ml
100	4-pyridinecarbonitrile	-	Solid	P	100g	1	100g
101	pyridinium-p-toluene sulfonate	-	Solid	P	25g	1	25g
102	2,3-pyridinedicarboxylic anhydride	-	Solid	P	25g	1	25g
103	pyridine-2,6-dicarboxylic acid	-	Solid	P	25g	1	25g
104	2-piperidineethanol	UN1759	Solid	P	25g	1	25g
105	2-pyridine sulfonic acid	-	Solid	P	10g	1	10g
106	pyridinium-p-toluene sulfonate	-	Solid	P	100g	1	100g
107	2-pyridinecarbonitrile	-	Solid	P	100g	1	100g
108	pyridine-2,5-dicarboxylic acid	-	Solid	P	100g	1	100g
109	2-piperdinemethanol	UN3263	Solid	P	25g	1	25g

110	2-phenyl-2-propanol	-	Solid	P	25g	1	25g
111	phenylhydrazine	UN2572	Solid	P	50g	1	50g
112	pentamethylbenzene	UN1325	Solid	P	5g	1	5g
113	2,2'-(1,3-Phenylene)diethanol	-	Solid	P	1g	1	1g
114	sodium-para-toluenesulfonate	-	Solid	S	100g	1	100g
115	(triphenylphosphoranylidene)acetonitrile	UN2811	Solid	T1	5g	1	5g
116	triphenylmethanol	-	Solid	T1	250g	1	250g
117	triethyleneglycol monomethylether	-	Liquid	T1	500ml	1	500ml
118	Tris(dibenzylideneacetone)dipalladium(0)	UN3077	Solid	Catalysts; T1	5g	1	5g
119	2,4,6-Trimethylpyridine	UN1993	Solid	T1; Tray-2	25g	1	25g
120	2-(Trimethylsilyl)ethanol	UN1993	Liquid	T2	25ml	1	25ml
121	tris(pentafluorophenyl)borane	UN2811	Solid	T2	5g	1	5g
122	O-tolyldiazine HCl	UN2811	Solid	T2	5g	1	5g
123	2,2,2-trichloroethanol	UN1760	Solid	T2	100g	1	100g
124	trichloroacetonitrile	UN3382	Solid	T2	100g	1	100g
125	trichloroacetonitrile	UN3382	Solid	T2	25g	1	25g
126	Dichloro-o-xylene	-	Solid	Z	50g	1	50g
127	m-xylene-d10	-	Solid	Z	5g	1	5g
128	1,3-Dimethoxy benzene	-	Solid	Room Temp	500g	1	500g
129	Pyridine-4-methanol	-	Solid	Room Temp	25g	1	25g
130	Styrene	UN2055	Solid	Room Temp			
131	Paraformaldehyde	UN2213	Solid	Room Temp	1kg	1	1kg
132	Nickel(II)bromide ethyleneglycoldimethylether complex	-	Solid	Catalysts	1g	1	1g
133	Nickel(II)chloride ethyleneglycoldimethylether complex	-	Solid	Catalysts	5g	1	5g
134	Tris(dibenzylideneacetone)dipalladium(0)	UN3077	Solid	Catalysts; T1	1g	1	1g
135	Tris(dibenzylideneacetone)dipalladium(0)	UN3077	Solid	Catalysts; T1	5g	1	5g
136	Tris(2,2'-	-	Solid	Catalysts	1g	1	1g

	bipyridine)ruthenium(II)hexafluorophosphate						
137	Bis[rhodium(tetramethyl-1,3-benzenedipropionicacid)]	-	Solid	Catalysts	100mg	1	100mg
138	Bis[rhodium(tetramethyl-1,3-benzenedipropionicacid)]	-	Solid	Catalysts	500mg	1	500mg
139	Tris(dibenzylideneacetone)dipalladium(0)-chloroform adduct	-	Solid	Catalysts	1g	1	1g
140	Sodium hydride 60% Dispersion in Mineral Oil	UN1427	Solid	Decicator	100g	1	100g
141	1,5-Diaminepentane	UN2735	Liquid	Tray-2	25ml	1	25ml
142	1, 3-Diamino-2-propanol, 95%	UN3259	Solid	Tray-1	0.5g	1	0.5g
143	Hydrazine monohydrate	UN2030	Liquid	NA; Tray-2; Tray-4	500ml	1	500ml
144	Pyridine-4-carbaldehyde	-	Liquid	Tray-4	50ml	1	50ml
145	2,4,6-trimethylpyridine	UN1993	Liquid	T1; Tray-2	100ml	1	100ml
146	Hydrazine monohydrate	UN2030	Liquid	NA; Tray-2; Tray-4	500ml	1	500ml
147	Hydrazine monohydrate	UN2030	Solid	NA; Tray-2; Tray-4	100g	1	100g
148	Hydrazine monohydrate	UN2030	Liquid	NA; Tray-2; Tray-4	500ml	1	500ml
149	Acrylic acid	UN2218	Solid	A to N; ACIDS	500g	1	500g
150	Oxalyl chloride	UN2922	Solid	ACIDS; R2-A to T	100g	1	100g
151	4-chlorobenzenesulfonyl chloride	UN3261	Solid	ACIDS	100g	1	100g
152	Oxalyl chloride	UN2922	Solid	ACIDS; R2-A to T	100g	1	100g
153	p-toluene sulfonic acid	UN2584	Solid	ACIDS	1kg	1	1kg
154	p- Toluenesulfonyl chloride	UN3261	Solid	ACIDS	250g	1	250g
155	Acrylic acid	UN2218	Liquid	A to N; ACIDS	1L	1	1L
156	HCl 4M in dioxane	UN2924	Solid	ACIDS			
157	p- Toluenesulfonyl chloride	UN3261	Solid	ACIDS	250g	1	250g
158	p- Toluenesulfonyl acid	UN2584	Solid	ACIDS	500g	1	500g
159	acrylic acid	UN2218	Solid	A to N; ACIDS	100g	1	100g
160	acetyl acetone	UN2310	Liquid	A to N; A2	500ml	1	500ml
161	4-azidobenzoic acid	-	Solid	A to N	25g	1	25g
162	2-bromopropane	UN2344	Solid	A to N	100g	1	100g
163	2-bromobutane	UN2339	Solid	A to N	100g	1	100g

164	borane-trimethylamine complex	UN1325	Solid	A to N	25g	1	25g
165	allyl alcohol	UN1098	Liquid	A to N	100ml	1	100ml
166	1-chloro-2-methyl-2-propanol	-	Liquid	A to N	50ml	1	50ml
167	cadmium powder	UN3179	Solid	A to N	100g	1	100g
168	2-methyl-2-oxazoline	UN1993	Solid	A to N	100g	1	100g
169	1-bromobutane	UN1126	Solid	A to N	25g	1	25g
170	Ethyl-4-bromobutyrate	-	Liquid	A to N	50ml	1	50ml
171	methyl pyruvate	-	Liquid	A to N; R6	500ml	1	500ml
172	Ethyl-4-iodo-benzoate	-	Solid	A to N; R2-iodides-1	50g	1	50g
173	ethyl-6-bromohexanoate	-	Solid	A to N	50g	1	50g
174	Ethylcyano acetate	-	Solid	A to N	250g	1	250g
175	Ethylene glycol	-	Liquid	A to N	250ml	1	250ml
176	ethyltrifluoroacetate	UN1993	Solid	A to N	100g	1	100g
177	ethylglyoxalate 950% in toluene)	UN1993	Liquid	A to N	100ml	1	100ml
178	ethyleneglycol vinylether	-	Liquid	A to N	10ml	1	10ml
179	Ethyl glyoxylate	-	Solid	A to N	100g	1	100g
180	1,3-dibromopropane	UN1993	Solid	A to N	250g	1	250g
181	4-Hydroxy-2-butanone	-	Solid	A to N	100g	1	100g
182	1,1,1,3,3,3-hexamethyldisilazine	UN1993	Liquid	A to N	100ml	1	100ml
183	3-methyl-1-butanethiol	-	Solid	A to N	5g	1	5g
184	N,O-bis(trimethylsilyl)acetamide	UN1993	Liquid	A to N; R6; S	25ml	1	25ml
185	N,O-bis(trimethylsilyl)acetamide	UN1993	Liquid	A to N; R6; S	100ml	1	100ml
186	4-methylmorpholine	UN2535	Liquid	A to N; Amines	25ml	1	25ml
187	Ethylene glycol-bis(2-aminoethylether)-N,N,N',N'-tetraacetic acid	-	Solid	A to N; R2-E	25g	1	25g
188	N-Methyl-N-vinylacetamide	-	Liquid	A to N	100ml	1	100ml
189	Methyl 4-chlorobutyrate	-	Solid	A to N	100g	1	100g
190	Methoxyacetone	-	Solid	A to N	10g	1	10g
191	Pivalonitrile	UN3273	Solid	A to N	25g	1	25g
192	Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid	-	Solid	A to N	10g	1	10g

193	Bicyclo[2.2.1]hepta-2,5-diene	UN2251	Liquid	A to N	100ml	1	100ml
194	bicyclo(2.2.1)hept-5-ene	UN2251	Solid	A to N	100g	1	100g
195	bicyclo(2.2.1)hept-5-en-2-ol	-	Solid	A to N	5g	1	5g
196	N,N-Dimethylformamide dineopentyl acetal	-	Solid	A to N	10g	1	10g
197	benzyltriethylammonium chloride	-	Solid	A to N	100g	1	100g
198	ethyl acetoacetate	UN1993	Liquid	A to N	100ml	1	100ml
199	sodium ethoxide 21%wt	UN3274	Liquid	S	100ml	1	100ml
200	sodiumcyanoborohydride		Solid	S	25g	1	25g
201	Sodium borohydride	UN1426	Solid	S	25g	1	25g
202	sulfur	UN1350	Solid	S	10g	1	10g
203	sodiummethoxide 5M in MeOH	UN1289	Liquid	S	500ml	1	500ml
204	Sodium chlorite	UN1496	Solid	Inorganic storage; S	250g	1	250g
205	sodiummethoxide 5M in MeOH	UN1289	Liquid	S	100ml	1	100ml
206	sodiummethoxide	UN1431	Solid	S	100g	1	100g
207	2,2-dimethoxypropane	UN1993	Liquid	A-N	500ml	1	500ml
208	Methylmagnesium chloride solution	UN3399	Liquid	A-N	25ml	1	25ml
209	2-Bromo-2-methylpropane	UN2342	Solid	A-N			
210	2,4,6-Collidine	UN1993	Liquid	A-N	100ml	1	100ml
211	1-methylpyrrolidine	UN2924	Liquid	Amines; AtoN	500ml	1	500ml
212	Sodium ethanethiolate	UN3263	Solid	S	10g	1	10g
213	sodium borodeuteride	-	Solid	S	1g	1	1g
214	2-aminothiophenol	-	Solid	S			
215	Sodium tert-butoxide	UN3206	Solid	Decicator; S	25g	1	25g
216	Sodium cyanoborodeuteride	-	Solid	S	1g	1	1g
217	may-grunwald-solution	-	Liquid	AtoN	500ml	1	500ml
218	P-Z	-	Solid				
219	Butyl acetate	UN1123	Liquid	P-Z	1L	1	1L
220	Potassium-tert-butoxide	UN3206	Liquid	Decicator; P-Z	100ml	1	100ml
221	Potassium-tert-butoxide solution	UN2924	Solid	P-Z	5g	1	5g

222	(trimethylsilyl)-isothiocyanate	-	Liquid	P-Z; R6	1L	1	1L
223	Methyl Thioglycolate	-	Solid	P-Z	100g	1	100g
224	2,2,2-trifluoroethanol	-	Solid	P-Z	25g	1	25g
225	2,2,2-trifluoroethanol	-	Solid	P-Z	100g	1	100g
226	tetrahydrothiophene	UN2412	Solid	P-Z	25g	1	25g
227	tert-butyl acrylate	UN1993	Solid	P-Z	100g	1	100g
228	1,3-Propanedithiol	-	Solid	P-Z	25g	1	25g
229	vinyltrimethylsilane	UN1993	Solid	P-Z	25g	1	25g
230	Zinc Chloride solution 1.0 M in ether	UN2924	Solid	P-Z	25g	1	25g
231	Lithium tri-tert-butoxyaluminiumhydride	-	Solid	P-Z	25g	1	25g
232	calcium hydride	UN1404	Solid	P-Z	100g	1	100g
233	Sodium hydride	UN1427	Solid	P-Z	100g	1	100g
234	Sodium hydride	UN1427	Solid	P-Z	100g	1	100g
235	Potassium hydride	UN1409	Solid	P-Z	75g	1	75g
236	Potassium-tert-butoxide	UN3206	Solid	Decicator; P-Z	100g	1	100g
237	Triethylborane solution	UN3394	Liquid	P-Z	100ml	1	100ml
238	tert-Butyl Acrylate (stabilized with MEHQ)	UN1993	Liquid	P-Z	100ml	1	100ml
239	2-(Dimethylamino)-ethanol	UN2051	Liquid	P-Z	100ml	1	100ml
240	Anisole	UN2222	Liquid	P-Z	250ml	1	250ml
241	Lithium Granular	UN1415	Solid	P-Z	25g	1	25g
242	Aluminium-nickel alloy	-	Solid	P-Z	10g	1	10g
243	Phosphorus red	UN1338	Solid	P-Z	100g	1	100g
244	1-Propanethiol	UN1275	Liquid	P-Z	500ml	1	500ml
245	Diisopropylamine	UN1158	Liquid	P-Z	2.5L	1	2.5L
246	Ethanthiol	UN2363	Liquid	P-Z	500ml	1	500ml
247	Amines	-	Solid				
248	Diethylamine	UN1154	Liquid	Amines	500ml	1	500ml
249	morpholine	UN2054	Liquid	Amines	100ml	1	100ml
250	tributylamine	UN2542	Liquid	Amines; Tray-4	500ml	1	500ml
251	triethylamine	UN1296	Liquid	Amines; Room Temp	500ml	1	500ml

252	tert-Butyl amine	UN3286	Liquid	Amines	1L	1	1L
253	Methylamine (40% water)	UN1235	Liquid	Amines	1L	1	1L
254	DABCO	-	Solid	Amines; D3	100g	1	100g
255	Ethanolamine	UN2491	Liquid	Amines	25ml	1	25ml
256	Hexamethylenetetramine	UN1328	Solid	Amines	250250g	1	250250g
257	Ethylamine(70% Aq solution)	UN2270	Liquid	Amines	500ml	1	500ml
258	Diisobutyl amine	UN2361	Liquid	Amines	500ml	1	500ml
259	Dimethylamine(2M in MeOH)	UN2924	Liquid	Amines	25ml	1	25ml
260	Octylamine	UN2735	Solid	Amines	100g	1	100g
261	cyclohexylamine	UN2357	Liquid	Amines	100ml	1	100ml
262	Butylamine	UN1125	Liquid	Amines	25ml	1	25ml
263	Butylamine	UN1125	Liquid	Amines	250ml	1	250ml
264	sec-Butylamine	UN2735	Liquid	Amines	100ml	1	100ml
265	N-ethylethlenediamine	-	Solid	Amines	25g	1	25g
266	Diethylamine	UN1154	Liquid	Amines	100ml	1	100ml
267	Diallylamine	UN2359	Liquid	Amines	100ml	1	100ml
268	3-(Dimethylamino)-1-propylamine	-	Liquid	Amines	250ml	1	250ml
269	N,N-Dimethylbutylamine	UN2734	Liquid	Amines	250ml	1	250ml
270	4-Ethylmorpholine	-	Liquid	Amines	100ml	1	100ml
271	N-Methyl-1,3-propanediamine	-	Solid	Amines	25g	1	25g
272	Cyclopentylamine	UN2733	Liquid	Amines	25ml	1	25ml
273	2-propynylamine	UN2733	Solid	Amines; P	25g	1	25g
274	2-propynylamine	UN2733	Solid	Amines; P	25g	1	25g
275	2,6-Dimethylpyrazine	-	Solid	Amines	25g	1	25g
276	4-methylmorpholine	UN2535	Liquid	Amines	500ml	1	500ml
277	N,N-Diisopropylethylamine	UN1993	Liquid	Amines	500ml	1	500ml
278	N,N-Diisopropylethylamine	UN1993	Liquid	Amines	500ml	1	500ml
279	Ethylenediamine	UN1604	Liquid	Amines	500ml	1	500ml
280	4-methylmorpholine	UN2535	Liquid	Amines	500ml	1	500ml
281	N,N,N-Trimethylethylenediamine, 98%	-	Solid	Amines	5g	1	5g
282	Diisobutylamine	UN2361	Liquid	Amines	500ml	1	500ml

283	N-ethylcyclohexylamine	-	Liquid	Amines	25ml	1	25ml
284	Propylamine, 99%	UN1277	Liquid	Amines	50ml	1	50ml
285	N,N-dimethylethylenediamine	-	Liquid	Amines	100ml	1	100ml
286	Hexamethyleneimine	UN1993	Liquid	Amines	500ml	1	500ml
287	1-methylpyrrolidine	UN2924	Liquid	Amines	500ml	1	500ml
288	1-amino-2-methyl-2-propanol	-	Solid	R2-A	1m	1	1m
289	3-amino-1-propanol	UN2735	Solid	A2; R2-A	50m	1	50m
290	1-amino-2-methyl-2-propanol	-	Solid	R2-A	1g	1	1g
291	(2R,3R,4S,5S)-4-Amino-2-(6-(dimethylamino)-9H-purin-9-yl)-5-(hydroxymethyl)tetrahydrofuran-3-ol	-	Solid	R2-A	0.25g	1	0.25g
292	4-aminobenzenethiol	-	Solid	R2-A	25g	1	25g
293	Acetylthiomethyl-diphenylphosphine borane complex Property	-	Solid	R2-A	1g	1	1g
294	3-bromo-1-propanol	-	Solid	B3; R2-B	25g	1	25g
295	2-(2-((tert-Butyldimethylsilyl)oxy)ethoxy)ethanol	-	Solid	R2-B	25g	1	25g
296	benzene-1,2-dithiol	-	Solid	R2-B	500g	1	500g
297	2-bromopyridine	UN1993	Solid	R2-B	25g	1	25g
298	benzeneselenol	-	Solid	R2-B	1g	1	1g
299	4-Bromo-2-methyl-2-butanol	-	Solid	R2-B	5g	1	5g
300	1-(Bromomethyl)-2-nitrobenzene	-	Solid	R2-B	5g	1	5g
301	2-bromoethanol	-	Solid	B2; R2-B	5g	1	5g
302	1,3,4-Tris(bromomethyl)benzene	-	Solid	R2-B	5g	1	5g
303	1-chloro-2,4-dinitrobenzene	UN1577	Solid	R2-C	25g	1	25g
304	2-chloroethyl p-toluenesulfonate	-	Solid	R2-C	100g	1	100g
305	2-chloropyridine-3-carbonylchloride	-	Solid	R2-C	5g	1	5g
306	4-carboxybenzene-sulfonazide	-	Solid	R2C	5g	1	5g
307	1,3-dichloroacetone	-	Solid	R2-D	10g	1	10g
308	1,3-dichloroacetone	-	Solid	R2-D	100g	1	100g
309	2,2'-dithiopyridine	-	Solid	R2-D	5g	1	5g
310	2,5-diamino-1,4-benzenedithiol	-	Solid	R2-D	5g	1	5g

	dihydrochloride						
311	4-dimethylaminobenzene-4'-sulfonyl chloride	-	Solid	R2-D	500mg	1	500mg
312	1,2-dioleoyl-sn-glycero-3-phosphoethanolamine	-	Liquid	R2-D	10ml	1	10ml
313	diacetone-D-glucose	-	Solid	R2-D	100g	1	100g
314	2,5-Dibromohexanediamide	-	Solid	R2	10g	1	10g
315	4-(dimethylamino)azobenzene-4'-sulfonyl chloride	-	Solid	R2-D	1g	1	1g
316	boron trifluoride diethyl etherate	UN2604	Liquid	R2-D	100ml	1	100ml
317	Borane dimethyl sulfide complex solution	UN3399	Liquid	R2-D	100ml	1	100ml
318	Formaldehyde solution 37%	UN2209	Liquid	R2-E	300ml	1	300ml
319	ethyleneglycol-bis(2-amino-ethylether)-N,N,N,N-tetraacetic acid	-	Solid	A to N; R2-E	10g	1	10g
320	4-fluoroiodobenzene	-	Solid	R2-iodides-1	5g	1	5g
321	iodopentafluorobenzene	-	Solid	R2-iodides-1	5g	1	5g
322	1,2-diiodobenzene	-	Solid	R2-iodides-1	1g	1	1g
323	1,2-diiodobenzene	-	Solid	R2-iodides-1	1g	1	1g
324	4-trifluoromethoxyiodobenzene	-	Solid	R2-iodides-1	5g	1	5g
325	1-bromo-4-iodobenzene	-	Solid	R2-iodides-1	5g	1	5g
326	(2-iodoethyl)benzene	-	Solid	R2-iodides-1	5g	1	5g
327	2,4-dichloroiodobenzene	-	Solid	R2-iodides-1	25g	1	25g
328	1,3-diiodobenzene	-	Solid	R2-iodides-1	5g	1	5g
329	1-chloro-4-iodobenzene	-	Solid	R2-iodides-1	25g	1	25g
330	1-iodo-4-nitrobenzene	-	Solid	R2-iodides-1	25g	1	25g
331	iodobenzene	UN1993	Solid	R2-iodides-1	100g	1	100g
332	2-iodoethanol	-	Solid	R2-iodides-2	25g	1	25g
333	1,4-diiodobenzene	-	Solid	R2-iodides-2	10g	1	10g
334	1-iodohexane	-	Solid	R2-iodides-2	25g	1	25g
335	4-iodotoluene	-	Solid	R2-I	25g	1	25g
336	1-fluoro-2,4-dinitrobenzene	-	Solid	R2-F	50g	1	50g
337	2-fluoro-6-methylpyridine	-	Solid	R2-F	1g	1	1g

338	hydrogenfluoride pyridine complex	-	Solid	R2-H	25g	1	25g
339	2-{1-[4-(hydroxymethyl)phenylamino]--cyclohexanedione	-	Solid	R2-H	100g	1	100g
340	triethylamine trihydrofluoride	-	Solid	R2-P	1g	1	1g
341	Hydroxyacetone	-	Solid	R2-F	100g	1	100g
342	2-Fluoro-4-methylpyridine	-	Solid	R2-A to T	25g	1	25g
343	5-methyl-2-pyridinesulfonamide	-	Solid	R2-M	5g	1	5g
344	4-methoxy-alpha-toluenethiol	-	Solid	R2-M	25g	1	25g
345	4-methoxybenzyl chloride	-	Solid	R2-M	25g	1	25g
346	2-mercaptoethanol	UN2966	Liquid	R2-M; R6	250ml	1	250ml
347	mono-6-O-(p-toluenesulfonyl)beta-cyclodextrin	-	Solid	R2-M	200g	1	200g
348	(9H-Fluoren-9-yl)methyl hydrazinecarboxylate	-	Solid	R2-M	25g	1	25g
349	N-(Methyl)-N-(p-toluenesulfonyl)ethynylamine	-	Solid	R2-N&O	20g	1	20g
350	2-nitrobenzenesulfonyl chloride	-	Solid	R2-N&O	10g	1	10g
351	3-nitro-2-pyridinesulfonyl chloride	-	Solid	R2-A to T	1g	1	1g
352	N-Boc-2-aminoacetaldehyde	-	Solid	R2-N&O	5g	1	5g
353	oxalyl chloride	UN2922	Solid	ACIDS; R2-A to T	100g	1	100g
354	phenoxyacetyl chloride	UN3265	Liquid	R2-P	50ml	1	50ml
355	potassium p-toluenethiosulfonate	-	Solid	R2-P	25g	1	25g
356	Thio carbohydrazine	-	Solid	R2-T	5g	1	5g
357	tetrabutylammonium fluoride 1.0M in THF	UN2924	Liquid	R2-T	500ml	1	500ml
358	Allyl bromide	UN1099	Solid	R6	500g	1	500g
359	2,2'-azobis(2-methyl-propionitrile) solution	UN3235	Liquid	R6	100ml	1	100ml
360	4,4'-Azobis(4-cyanovaleric acid)	UN3234	Solid	R6	25g	1	25g
361	acetaldehyde	UN1089	Liquid	R6	100ml	1	100ml
362	Acetyl chloride	UN1717	Liquid	ACIDS; R6	100ml	1	100ml
363	Acetyl chloride	UN1717	Liquid	ACIDS; R6	25ml	1	25ml
364	Bromoacetonitrile	UN3276	Solid	B3; R6-B	100g	1	100g

365	1-azido-4-iodobenzene solution	-	Liquid	R6	10ml	1	10ml
366	bromocyclopentane	-	Solid	R6	25g	1	25g
367	boranediphenylphosphine complex	-	Solid	R6	5g	1	5g
368	dimethylamine 10% in THF	UN2924	Liquid	R6	500ml	1	500ml
369	Chloroacetaldehyde Diethyl acetal	UN1993	Solid	R6	100g	1	100g
370	Cyclopentanecarboxaldehyde	UN1993	Solid	R6	5g	1	5g
371	Dibutylboron trifluoromethanesulfonate, 1M in diethyl ether	UN3399	Liquid	R6	100ml	1	100ml
372	ethyl acrylate	UN1917	Liquid	R6	100ml	1	100ml
373	ethyl vinyl ether	UN1302	Liquid	R6	250ml	1	250ml
374	1,2-Epoxyhexane	UN1993	Solid	R6	25g	1	25g
375	hexanenitrile	UN3273	Solid	R6	5g	1	5g
376	4-fluorophenylmagnesium bromide solution 1M in THF	UN3399	Liquid	R6	100ml	1	100ml
377	2-fluoropyridine	UN1993	Solid	R6	10g	1	10g
378	1-iodo-3-nitrobenzene	-	Solid	R6	25g	1	25g
379	Chloroacetaldehyde Diethyl acetal	UN1993	Solid	R6	100g	1	100g
380	methyl pyruvate	-	Solid	A to N; R6	100g	1	100g
381	2-methyl-2-butene 2.0 M in THF	UN1993	Liquid	R6	100ml	1	100ml
382	2-mercaptoethanol	UN2966	Liquid	R2-M; R6	100ml	1	100ml
383	2-vinyl pyridine	UN1993	Liquid	R6	100ml	1	100ml
384	Vinyl bromide (1M soln in THF)	UN1993	Liquid	R6	100ml	1	100ml
385	Vinyl bromide (1M soln in THF)	UN1993	Liquid	R6	100ml	1	100ml
386	4-vinylpyridine	UN1993	Liquid	R6	100ml	1	100ml
387	Samarium(II)iodide solution (0.1 M in THF)	UN3399	Liquid	R6	25ml	1	25ml
388	Samarium(II)iodide solution (0.1 M in THF)	UN3399	Liquid	R6	100ml	1	100ml
389	2,2,3,3,3-Pentafluoro-1-propanol, for GC derivatization	-	Solid	R6	25g	1	25g
390	propargyl bromide 80% in toluene	UN2345	Liquid	R6	50ml	1	50ml
391	propargyl bromide 80% in toluene	UN2345	Solid	R6	125g	1	125g

392	1,2,3,6-tetrahydropyridine	UN1993	Solid	R6	1g	1	1g
393	tetrabutylammonium fluoride 1 M in THF	UN2924	Liquid	R6	100ml	1	100ml
394	ammonia solution 7N in methanol	UN2924	Liquid	R6	100ml	1	100ml
395	ammonia solution 2M in ethanol	UN2924	Liquid	R6	100ml	1	100ml
396	ammonia solution 0.5M in dioxane	UN2924	Liquid	R6	100ml	1	100ml
397	Lithium bis(trimethylsilyl)amide solution 1.0M in THF	UN3399	Liquid	R6	25ml	1	25ml
398	9-Fluorenylmethanol	-	Solid	F; R1	100g	1	100g
399	Azobenzene-4-sulfonyl chloride	-	Solid	R1	5g	1	5g
400	Hexanes	UN1208	Liquid		10L	3	30L
401	Methanol	UN1230	Liquid		10L	2	20L
402	Ethanol	UN1170	Liquid		10L	2	20L
403	Ethyl acetate	UN1173	Liquid		10L	2	20L
404	Acetonitrile	UN1648	Liquid		10L	3	30L
405	Dimethylformamide	UN2265	Liquid		10L	3	30L
Hazardous Substances							
				Inorganic storage; undersink			
406	Ammonium peroxodisulfate	UN1444	Solid	A1	25g	1	25g
407	Sodium hydroxide	UN1823	Solid	A2	1kg	1	1kg
408	Ammonium fluoride	UN2505	Solid	A2	100g	1	100g
409	O-anisidine	UN2431	Solid	ACIDS	250g	1	250g
410	p-Anisidine	UN2431	Solid	N	100g	1	100g
411	Nitric acid	UN2031	liquid	N	250ml	1	250ml
412	Nickel nitrate hexahydrate	UN2725	solid	NA	250g	1	250g
413	4-Nitroaniline	UN1661	solid	B1; R2-B	100g	1	100g
414	Aniline	UN1547	Liquid	ACIDS	1L	1	1L
415	Bromo Acetyl bromide	UN1716	liquid	ACIDS; Room Temp	25g	1	25g
416	Boron tribromide	UN2692	solid	ACIDS	25g	1	25g
417	Acetic anhydride	UN1715	liquid	ACIDS	500ml	1	500ml

418	Acetic acid	UN2789	liquid	R2-A	500 ml	1	500 ml
419	Sulphuric acid	UN1830	liquid	R6	500ml	1	500ml
420	Aluminum bromide	UN1725	solid	R6	5g	1	5g
421	Ammonia solution	UN1005	liquid		100ml	2	200ml
423	Hydrogen chloride solution	UN1789	liquid		100ml	1	100ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04N-11

Person-in-charge: Prof. Peter Preiser

Contact Person: Gao Xiaohong Annie, James Yong

Lab address: SBS-04N - 11

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	1-bromo-3-chloropropane	2810	Liquid	04N-11	200ml	1	200ml
2	2-Butanol	1212	Liquid	04N-11	1L	1	1L
3	2-Propanol	1219	Liquid	04N-11	2.5L	2	5L
4	2-Propanol	1219	Liquid	04N-11	1	1	1
5	Acetic acid (glacial) 100%	1090	Liquid	04N-11	2.5L	2	5L
6	Acetone	1648	Liquid	04N-11	2.5L	1	2.5L
7	Acetonitrile	1648	Liquid	04N-11	4L	1	4L
8	Acetonitrile	1648	Liquid	04N-11	4L	2	8L
9	Acetonitrile (0.1%FA)	1444	Liquid	04N-11	1L	2	2L
10	Ammonium Persulfate (APS)	1170	Solid	04N-11	10g	1	10g
11	Ethanol	1170	Liquid	04N-11	2.5L	2	5L
12	Ethanol	1090	Liquid	04N-11	5L	5	25L
13	Eukitt® Quick-hardening mounting medium (Poly(butyl methacrylate-co-methyl methacrylate)	1866	Liquid	04N-11	100ml	1	100ml
14	Formamide	1325	Liquid	04N-11	1L	1	1L
15	GIEMSA stain, modified	-	Liquid	04N-11	1L	2	2L
16	Methanol	1230	Liquid	04N-11	2.5L	3	7.5L
17	Methanol	1230	Liquid	04N-11	5L	5	25L
18	N,N-Dimethylformamide	2265	Liquid	04N-11	1L	1	1L
19	N,N-Dimethylformamide	2265	Liquid	04N-11	100ml	4	400ml
20	N,N-Dimethylformamide	2265	Liquid	04N-11	500ml	1	500ml
22	N,N-Dimethylformamide	2265	Liquid	04N-11	250ml	1	250ml

23	Paraformaldehyde	2213	Solid	04N-11	500g	1	500g
24	Piperidine	2401	Liquid	04N-11	200ml	1	200ml
25	Pyridine	1282	Liquid	04N-11	1L	1	1L
26	Sodium borohydride	1426	Solid	04N-11	25g	2	50g
27	Sodium Cyanoborohydride	3132	Solid	04N-11	10g	1	10g
28	N,N,N',N'-Tetramethyl-ethylenolamine (TEMED)	2377	Liquid	04N-11	50ml	1	50ml
29	tert-Amyl alcohol	1105	Liquid	04N-11	1L	1	1L
30	Xylenes	1307	Liquid	04N-11	500ml	1	500ml
Hazardous Substances							
31	1-Methyl-2-pyrrolidinone	1993	Liquid	04N-11	1L	2	2L
32	Bis-Tris	-	Solid	04N-11	100g	1	200g
33	Bleach	1791	Liquid	04N-11	5L	3	15L
34	Chloroform 99.8+%	1888	Liquid	04N-11	2.5L	3	7.5L
35	Dabco® 33-LV (1,4-Diazabicyclo[2.2.2]octane solution)	-	Liquid	04N-11	100ml	1	100ml
36	Dibutyl phthalate	3082	Liquid	04N-11	500ml	1	500ml
37	Diethanolamine	2051	Liquid	04N-11	500g	1	500g
38	Maleic acid	2215	Solid	04N-11	1kg	1	1kg
39	Ethidium bromide	3077	Solid	04N-11	25g	1	25g
40	Ethanolamine	2491	Liquid		100ml	1	100ml
40	Formalin solution, neutral buffered, 10%	2209	Liquid	04N-11	120ml	3	360ml
41	Formic Acid	1779	Liquid	04N-11	50ml	1	50ml
42	Glycerol	-	Liquid	04N-11	1L	2	2L
43	Guanidine Thiocyanate	1759	Solid	04N-11	250g	1	250g
44	Hexadecyltrimethyl-ammonium bromide	3077	Solid	04N-11	25g	1	25g
45	Hydrochloric acid fuming 37%	1789	Liquid	04N-11	2.5L	1	2.5L
46	Hyflo® Super-Cel®	-	Solid	04N-11	5kg	1	5kg
47	IGEPAL® CA-630 (Octylphenoxy	-	Liquid	04N-11	100ml	1	100ml

	poly(ethyleneoxy)ethanol (NP-40)						
48	Imidazole	3263	Solid	04N-11	500g	1	500g
49	Imperial protein stain	-	Liquid	04N-11	1L	1	1L
50	Nonidet™ P 40 Substitute (4-Nonylphenyl-polyethylene glycol)	-	Liquid	04N-11	500ml	2	1000L
51	NP 40_Tergitol solution	-	Liquid	04N-11	1L	1	1L
52	Potassium Hydroxide	1813	Solid	04N-11	1kg	2	2kg
53	Sodium hydroxide	1823	Solid	04N-11	1kg	2	2kg
54	Sodium hydroxide	1823	Solid	04N-11	5kg	1	5kg
55	Trichloroacetic acid	1839	Solid	04N-11	500mg	1	500g
56	Trifluoroacetic acid	2699	Solid	04N-11	500ml	1	500ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04N-15

Person-in-charge: Prof. Bozdech Zbynek

Contact Person: Prof Bozdech Zbynek

Lab address: SBS-04N – 15

Date of update: 15 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	ethanol emsure acs absolute for analysis	1170	Liquid	04n-15	2.5L	1	2.5L
2	Lithium dodecyl sulphate HIGH PURITY GRADE 0782	-	Solid	04n-15	25g	1	25g
3	Sulphur powder	1350	Solid	04n-15	1kg	1	1kg
4	1-butanol anhydrous	1120	Liquid	04n-15	100ml	1	100ml
5	2 methyl-1-propanol, 99+%	1212	Liquid	04n-15	500ml	1	500ml
6	2- Acetic acid glacial	2789	Liquid	04n-15	2.5L	2	5L
7	2-Methyl-1-propanol	1212	Liquid	04n-15	500ml	0	0
8	2,2,2-Trifluoroethanol	1986	Liquid	04n-15	250ml	1	250ml
9	Acetic acid (glacial) 100% anhydrous for analysis EMSURE®	2789	Liquid	04n-15	100ml	1	100ml
10	Acetone	1090	Liquid	04n-15	1L	1	1L
11	Acetonitrile HPLC	1648	Liquid	04n-15	4L	3	12L
12	Acetonitrile HPLC	1648	Liquid	04n-15	4L	1	4L
13	acetone	1090	Liquid	04n-15	2.5L	1	2.5L
14	ethanol 99% with 5% methanol	1170	Liquid	04n-15	5L	5	25L
15	Ethyl Acetate	1173	Liquid	04n-15	1L	1	1L
16	Formaldehyde 36.5%	2209	Liquid	04n-15	25ml	5	125ml
17	0,1% FA in acetonitrile	1648	Liquid	04n-15	1L	2	2L
18	Giemsa azur blue eosine	-	Liquid	04n-15	1L	1	1L
19	Giemsa stain, modified GS1L	-	Liquid	04n-15	1L	2	2L
20	Isoamyl alcohol	1105	Liquid	04n-15	50ml	1	50ml
22	Methanol optima	1230	Liquid	04n-15	4L	2	8L

23	Methanol 99%	1230	Liquid	04n-15	5L	2	10L
24	N,N-Dimethyl13C2-formamide	2265	Liquid	04n-15	500ml	2	1L
25	N,N-Dimethyl13C2-formamide	2265	Liquid	04n-15	250ml	1	250ml
26	propan-2-ol 99.5%	1219	Liquid	04n-15	2.5L	3	7.5L
27	propanol for hplc	1274	Liquid	04n-15	2.5L	1	2.5L
28	n-Propanol	1274	Liquid	04n-15	2.5L	2	5L
29	Paraformaldehyde	2213	Solid	04n-15	1kg	1	1kg
30	pyridine	1282	Liquid	04n-15	250ml	1	250ml
31	Sodium Borohydride	1426	Solid	04n-15	25g	1	25g
32	Sodium Dodecyl Sulfate (SDS)	-	Solid	04n-15	100g	1	100g
33	Sodium Dodecyl Sulfate (SDS) nitrile	-	Solid	04n-15	500g	1	500g
34	Temed	2370	Liquid	04n-15	5ml	6	30ml
35	Toluene chromasol	1294	Liquid	04n-15	100ml	1	100ml
36	Triethylamine	1296	Liquid	04n-15	500ml	1	500ml
37	RAL 555 fix	-	Liquid	04n-15	1L	1	1L
38	0.1% FA in acetonitrile	1648	Liquid	04n-15	1L	1	1L
39	RNA prep buffer	-	Liquid	04n-15	100ml	1	100ml
Hazardous Substances (cc)							
40	Tris Alkaline Buffer	-	Liquid	04n-15	10ml	1	10ml
41	Protein assay Dye reagent concentrate	-	Liquid	04n-15	450ml	1	450ml
42	Quick start Bradford dye reagent 1X	-	Liquid	04n-15	1L	1	1L
43	Western blotting luminol reagent A	-	Liquid	04n-15	125ml	2	250ml
44	Luminol solution ECL select	-	Liquid	04n-15	50ml	1	50ml
45	Peroxide solution ECL select	-	Liquid	04n-15	50ml	1	50ml
46	Citric Acid	-	Solid	04n-15	500g	1	500g
47	Guanidine Hydrochloride	-	Solid	04n-15	100g	2	200g
48	Guanidine Hydrochloride	-	Solid	04n-15	100g	1	100g
49	Polyethylene Glycol	-	Solid	04n-15	500g	1	500g
50	Tris Electrophoresis Purity Reagent 1610794	-	Solid	04n-15	1kg	1	1kg
51	Tris	-	Solid	04n-15	20g	1	20g

52	Tris- base	-	Solid	04n-15	500g	1	500g
53	Trizma Base	-	Solid	04n-15	500g	1	500g
54	L-Leucine	-	Solid	04n-15	100g	1	100g
55	JB-4 Solution A	3106	Liquid	04n-15	800ml	1	800ml
56	JB-4 Solution B	3106	Liquid	04n-15	30ml	1	30ml
57	JB-4 Catalyst	3106	Solid	04n-15	12g	1	12g
58	TRIS(HYDROXYMETHYL)AMINOMETHANE HYDROCHLORIDE Tris ultrapure	-	Solid	04n-15	5kg	1	5kg
59	10x TAE buffer	-	Liquid	04n-15	1L	1	1L
60	EmPower foam	-	Liquid	04n-15	710 ml	2	1420ml
61	FACS detergent	-	Liquid	04n-15	25ml	2	50ml
62	Oil LVO 700 02	-	Liquid	04n-15	2ml	2	4ml
63	RNAzap (in use)	-	Liquid	04n-15	250ml	1	250ml
64	1M Tris-HcL	-	Liquid	04n-15	500ml	1	500ml
65	RAL 555 FIX	-	Liquid	04n-15	1L	1	1L
66	Paraformaldehyde	2213	Solid	04n-05	500g	1	500g
67	0.1% FA in water	-	Liquid	04n-06a	4L	1	4L
68	Pierce LTQ ESI Positive ion calibration solution	-	Liquid	04n15	10ml	1	10ml
69	iRT peptides	-	Solid	04n15	2ml	2	4ml
70	10X Tris/Glycine/SDS Buffer	-	Liquid	04n15	5L	1	5L
71	10X Tris-Acetate-EDTA (TAE) Buffer	-	Liquid	04n15	1L	2	2L
72	Pierce quantitative fluorometric peptide assay	-	Liquid	04n15	RED / IGNORE	4	4
73	Pierce ESI negative ion calibration solution	-	Liquid	04n15	10ml	2	20ml
74	Pierce ESI positive ion calibration solution	-	Liquid	04n15	10ml	1	10ml
75	Glutaraldehyde	-	Liquid	04n15	1L	1	1L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04N-24

Person-in-charge: Prof. Melissa Jane Fullwood

Contact Person: Amuley Prachi, Jes Kwek Hui Min

Lab address: SBS-04N - 24

Date of update: 11 USep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	ISOPROPANOL (ISOPROPYL ALCOHOL)109634	1219	Liquid	04N-24 (FC)	2.5 L	2	2 L
2	ETHANOL, 99% (5% METHANOL) ET099	1170	Liquid	04N-24 (FC)	5 L	1	4.5 L
3	ETHANOL, AR (99.5-99.8%) 100983	1170	Liquid	04N-24 (FC)	2.5 L	2	1 L
4	FORMALDEHYDE SOLUTION (37WT%; CONTAINS 10-15% METHANOL)	2209	Liquid	04N-24 (FC)	100 mL	2	150 mL
5	METHANOL 107018	1230	Liquid	04N-24 (FC)	2.5 L	2	1 L
6	TEMED (1,2-DI-(DIMETHYLAMINO) ETHANE) 1610800	2372	Liquid	04N-24	5 mL	1	3 mL
7	DIMETHYLFORMAMIDE 20673	2265	Liquid	04N-24 (FC)	50 mL	1	50 mL
8	ACETONITRILE 34851	1648	Liquid	04N-24 (FC)	1 L	1	1 L
9	METHANOL 34860	1230	Liquid	04N-24 (FC)	1 L	1	1 L
10	HEXANE 34859	1208	Liquid	04N-24 (FC)	1 L	1	1 L
11	METHYL ACETATE 45999	1231	Liquid	04N-24 (FC)	250 mL	1	250 mL
Hazardous Substances (cc)							
1	ACETIC ACID (GLACIAL) 100% 100063	2789	Liquid	04N-24	2.5 L	3	2 L
2	ACETIC ACID GLACIAL, REAGENTPLUS, >=99% A6283	2789	Liquid	04N-24	500 mL	1	500 mL
3	TRIZOL REAGENT (30-60% PHENOL) 15596018	1851	Liquid	04N-24 (4C)	200 mL	1	200 mL
4	PARAFORMALDEHYDE, 4% IN PBS J61899	3334	Liquid	04N-24 (4C)	250 mL	1	250 mL

5	DL-Dithiothreitol solution 43816	–	Liquid	04N-24 (4C)	50 mL	1	50 mL
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Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04N-24

Person-in-charge: Prof. Loh Jia Tong

Contact Person: Irene Soon Ai Ling

Lab address: SBS-04N - 24

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Methanol	1230	Liquid	04n-24	2.5L	1	2.5L
2	2-Propanol, for analysis	1219	Liquid	04n-24	2.5L	1	2.5L
3	Ethanol, Absolute for analysis	1170	Liquid	04n-24	2.5L	2	5L
4	Crystal Violet Solution	-	Liquid	04n-24	1L	1	1L
5	Formalin solution, neutral buffered, 10%	3334	Liquid	04n-24	4L	1	4L
6	DPX Mountant	1993	Liquid	04n-24	100ml	1	100ml
7	Ethanol 99% (with 5% Methanol), Industrial [C3]	1986	Liquid	04n-24	5L	1	5L
8	Xylenes 534056-500ML	1307	Liquid	04n-24	500ml	1	500ml
9	Acetone	1090	Liquid	04n-24	2.5L	1	2.5L
Hazardous Substances (cc)							
9	Hydrochloric acid (37%)	1789	Liquid	04n-24	2.5L	1	2.5L
10	Phosphoric acid (~85 wt.% solution)	1805	Liquid	04n-24	2.5L	1	2.5L
11	Pico Sirius Red	-	Liquid	04n-24	100ml	1	100ml
12	Ammonium hydroxide solution	2672	Liquid	04n-24	1L	1	1L
13	Schiff's reagent for aldehydes	-	Liquid	04n-24	250ml	1	250ml
14	Phenol Solution	2821	Liquid	04n-24	100ml	1	100ml
15	Formic Acid	1779	Liquid	04n-24	100ml	1	100ml
16	Glutaraldehyde solution	2922	Liquid	04n-24	100ml	1	100ml
17	Chloroform, >99.8%	1888	Liquid	04n-24	2.5L	1	2.5L
18	Dimethyl sulfoxide Hybri-Max Sterile	-	Liquid	04n-24	100ml	1	100ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04S-29

Person-in-charge: Prof. Jaume Torres

Contact Person: Wahyu Surya

Lab address: SBS-04S - 29

Date of update: 14 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetone	1090	Liquid	04S-29	2.5L	1	2.5L
2	Acetone (Industrial)	1090	Liquid	04S-29	5L	1	5L
3	Acetonitrile	1648	Liquid	04S-29	4L	2	8L
4	Butane	1011	Liquid	04S-29	190g	1	190g
5	1,2-Dichloroethane	1184	Liquid	04S-29	2L	1	2L
6	1,2-Dimethoxyethane	2252	Liquid	04S-29	500ml	1	500ml
7	n,n-Dimethylformamide	2265	Liquid	04S-29	2.5L	2	5L
8	Ethanol	1170	Liquid	04S-29	2.5L	3	7.5L
9	Ethanol (with 5% methanol)	1170	Liquid	04S-29	5L	2	5L
10	Isopropanol (Isopropyl alcohol)	1219	Liquid	04S-29	2.5L	4	10L
12	Methanol	1230	Liquid	04S-29	2.5L	3	7.5L
13	Methanol (Industrial)	1230	Liquid	04S-29	5L	2	10L
14	n-Propanol	1274	Liquid	04S-29	1L	1	1L
15	Sodium borohydride	1426	Solid	04S-29	100g	1	100g
16	t-Butyl-methyl ether	2398	Liquid	04S-29	1L	1	1L
17	Cyclohexane	1145	Liquid	04S-29	2.5L	1	2.5L
18	Toluene	1294	Liquid	04S-29	1L	1	1L
19	Acetic acid	2789	Liquid	04S-29	2.5L	2	5L
20	Sodium dodecyl sulfate	2926	Solid	04S-29	1kg	1	1kg
21	Decane	2247	Liquid	04S-29	100ml	1	100ml
22	Decane	2247	Liquid	04S-29	1L	1	1L

23	2,2,2-Trifluoroethanol	-	Liquid	04S-29	250ml	1	250ml
24	2,2,2-Trifluoroethanol	-	Liquid	04S-29	500ml	1	500mL
Hazardous Substances (cc)							
25	Mercury (II) chloride	-	Solid	04S-29	100g	1	100g
26	Phenol	1671	Solid	04S-29	250g	1	250g
27	Thallium bromide (KRS-5) crystal	-	Solid	04S-29	1Piece	2	2Piece
28	Ammonia	2672	Liquid	04S-29	2.5L	1	2.5L
29	Boric acid	-	Solid	04S-29	1kg	1	1kg
30	Formaldehyde	1198	Liquid	04S-29	25ml	1	25ml
31	Hydrochloric acid	1789	Liquid	04S-29	2.5L	2	5L
32	Pentadecafluorooctanoic acid	-	Solid	04S-29	500g	1	500g
33	Potassium hydroxide	1813	Solid	04S-29	1kg	3	3kg
34	Sodium azide	1687	Solid	04S-29	100g	2	200g
35	Sodium hydroxide	1823	Solid	04S-29	1kg	3	3kg
36	Sulphuric acid	1831	Liquid	04S-29	2.5L	1	2.5L
37	Copper etchant	-	Liquid	04S-29	500ml	1	500ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04S-36

Person-in-charge: Prof. Yang Tianjin

Contact Person: Shum Khum Wayne

Lab address: SBS-04S - 36

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	3-methylbutanol	UN 1105	Liquid	04s-36	1 L/0.5 L	2	1.5 L
2	Acetic acid (glacial) 100%	UN 2789	Liquid	04s-36	2.5 L	1	2.5 L
3	Acetone	UN 1090	Liquid	04s-36	2.5 L	1	2.5 L
4	Acetonitrile	UN 1648	Liquid	04s-36	4 L	2	4 L
5	Acetonitrile	UN 1648	Liquid	04s-36	1 L	1	1 L
6	Chloroform	UN 1888	Liquid	04s-36	2.5 L	1	2.5 L
7	Dichloromethane	UN 1593	Liquid	04s-36	1 L	1	1 L
8	DMSO	-	Liquid	04s-36	2.5L	1	2.5 L
9	DMSO	-	Liquid	04s-36	100 mL	1	100 mL
10	Ethanol	UN 1170	Liquid	04s-36	2.5 L	2	5 L
11	Ethanol (5% Methanol)	UN 1170	Liquid	04s-36	5 L	1	5 L
12	Ethylene glycol	-	Liquid	04s-36	1 L/0.25 L	2	1.25 L
13	2-Propanol (isopropanol)	UN 1219	Liquid	04s-36	2.5 L	1	2.5 L
14	PlusOne Repel-Silane ES	UN 1993	Liquid	04s-36	0.5 L	1	0.5 L
Hazardous Substances (cc)							
15	Ammonium hydroxide solution	UN 2672	Liquid	04s-36	1 L	1	1 L
16	APTES (3-aminopropyl) triethoxysilane	UN 2735	Liquid	04s-36	100 mL	1	100 mL
17	Formic acid	UN 1779	Liquid	04s-36	1 L	1	1 L
18	Hydrochloric acid	UN 1789	Liquid	04s-36	2.5 L	2	5 L

19	Ortho-phosphoric acid 85%	UN 1805	Liquid	04s-36	2.5 L	1	2.5 L
20	Potassium hydroxide	UN 1814	Solid	04s-36	1 kg	3	3 kg
21	Sodium hydroxide	UN 1824	Solid	04s-36	1 kg	1	1 kg
22	Sulfuric acid	UN 1830	Liquid	04s-36	2.5 L	1	2.5 L
23	Zinc chloride	UN 2331	Solid	04s-36	500 g	1	500 g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04S-46

Person-in-charge: Prof. Mu Yuguang

Contact Person: Seetoh Wei Song

Lab address: SBS-04S-46

Date of update: 11 Sep 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	N,N-Dimethylformamide (anhydrous, 99.9%)	2265	Liquid	04s-46 (FC)	100ml	1	100ml
2	Ethanol (absolute for analysis EMSURE® ACS,ISO,Reag. Ph Eur)	1170	Liquid	04s-46 (FC)	2.5L	3	7.5L
3	2-Propanol (absolute for analysis EMSURE® ACS,ISO,Reag. Ph Eur)	1219	Liquid	04s-46 (FC)	2.5L	1	2.5L
4	Ethanol 99% (with 5% Methanol)	1170	Liquid	04s-46 (FC)	5L	2	10L
5	Methanol (for analysis EMPARTA® ACS)	1230	Liquid	04s-46 (FC)	2.5L	1	2.5L
6	Glycerol, Molecular Biology Grade	-	Liquid	04s-46 (FC)	1L	1	1L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-05N-11

Person-in-charge: Prof. Linda Zhong Lidan

Contact Person: Li Meng

Lab address: SBS-05N - 11

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Ethanol 70% (with 5% IPA)	1170	Liquid	05n-08 (FC)	5L	1	5L
Hazardous Substances (cc)							
2	Sodium Hypochlorite solution	1791	Liquid	05n-08	1L	2	1L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-05N-11

Person-in-charge: Prof. Tan Suet Mien

Contact Person: Chong Zhuen Wen, Teng Zheng Kai

Lab address: SBS-05N - 11

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Propanol/ Isopropanol EMSURE	1219	Liquid	05n-11	2.5L	2	5L
2	Coomassie Destain Solution (Working Solution)	1993	Liquid	05n-11	2L	1	2L
3	Coomassie Stain Solution (Working Solution)	1993	Liquid	05n-11	2L	1	2L
4	Ethanol, 70% (Working Solution)	1170	Liquid	05n-11	1L	2	2L
5	Ethanol, 99% (+ 5% Methanol)	1986	Liquid	05n-11	5L	3	10L
6	Ethanol, Absolute, EMSURE	1170	Liquid	05n-11	2.5L	3	7.5L
7	Methanol	1230	Liquid	05n-11	4L	3	12L
8	Acetonitrile	1648	Liquid	05n-11	2.5L	1	2.5L
Hazardous Substances (cc)							
9	Hydrochloric acid, fuming, 37%	1789	Liquid	05n-11	2.5	2	5L
10	Acetic Acid, 100% (Glacial)	2789	Liquid	05n-11	2.5	5	12.5L
11	Sodium hydroxide	1823	Solid	05n-11	1kg	1	1kg

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-05N-15

Person-in-charge: Prof. Sho Suzuki

Contact Person: Yuxia Qi

Lab address: SBS-05N - 15

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid	2789	Liquid	05n-15(FC)	2.5 L	1	2.5 L
2	Acetone	1090	Liquid	05n-15(FC)	2.5 L	1	2.5 L
3	2-Propanol	1219	Liquid	05n-15(FC)	2.5 L	1	2.5 L
4	Ethanol	1170	Liquid	05n-15(FC)	2.5 L	1	2.5 L
5	70% Ethanol	1170	Liquid	05n-15(FC)	2 L	1	2 L
6	70% Ethanol	1170	Liquid	05n-15(FC)	5 L	1	5 L
7	99% Ethanol	1170	Liquid	05n-15(FC)	5 L	5	25 L
8	Methanol	1230	Liquid	05n-15(FC)	2.5 L	1	2.5 L
9	N,N-Dimethylformamide	2265	Liquid	05n-15(FC)	250 ml	1	250 ml
10	N,N-Dimethylformamide	2265	Liquid	05n-15(FC)	2.5 L	1	2.5 L
11	Sodium Dodecyl Sulfate	-	Liquid	05n-15(FC)	2.5 L	1	2.5 L
Hazardous Substances (cc)							
12	Hydrochloric acid	1789	Liquid	05n-15	2.5 L	1	2.5 L
13	Trichloroacetic acid	1839	Solid	05n-15	1 kg	1	1 kg
14	Trichloroacetic acid	1839	Liquid	05n-15	100 ml	1	100 ml
15	Manganase (II) chloride tetrahydrate	-	Solid	05n-15	500 g	1	500 g
16	2-Mercaptoethanol	2966	Liquid	05n-15	1 L	1	1 L
17	Triton X-100	-	Liquid	05n-15	500 ml	1	500 ml
18	Cobalt(II) chloride hexahydrate	3077	Solid	05n-15	100 g	1	100 g
19	Ethanolamine	2491	Liquid	05n-15	100 ml	1	100 ml
20	Lithium chloride	-	Solid	05n-15	500 g	1	500 g

21	Triton X-114	-	Liquid	05n-15	100 ml	1	100 ml
22	Imidazole	-	Solid	05n-15	500 g	1	500 g
23	Sodium hydroxide	1823	Solid	05n-15	1 kg	1	1 kg
24	Potassium hydroxide	1813	Solid	05n-15	500 g	1	500 g
25	Chloramphenicol	-	Solid	05n-15	25 g	1	25 g
26	Hellmanex™ III	3266	Liquid	05n-15	1 L	1	1 L
27	16% Formaldehyde (w/v), Methanol-free	2290	Liquid	05n-15	10 ml	13	130 ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-B1N-01 (General Store)

Person-in-charge: Liew Chong Wai

Contact Person: Xia Yinyan

Lab address: SBS-B1N - 01

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic Acid (Glacial) 100% anhydrous, GR (Glass Bottle)	2789	Liquid	B1N-01 & B1N-04	2.5L	6	15L
2	Acetone	1090	Liquid	B1N-01 & B1N-04	5L	8	40L
3	Acetone, >99.8% GR Grade	1090	Liquid	B1N-01 & B1N-04	2.5L	5	12.5L
4	Acetonitrile Gradient Gr for Liq Chromatography Lichrosolv	1648	Liquid	B1N-01 & B1N-04	4L	16	64L
5	Acetonitrile HPLC	1648	Liquid	B1N-01 & B1N-04	4L	10	40L
6	Ethanol 99% (with 5% Methanol), Industrial	1986	Liquid	B1N-01 & B1N-04	5L	39	195L
7	Ethanol 99.5-99.8%, Absolute, GR Grade for Analysis	1170	Liquid	B1N-01 & B1N-04	2.5L	40	100L
8	Ethyl Acetate, GR	1173	Liquid	B1N-01 & B1N-04	2.5L	8	20L
9	Ethyl Acetate, GR for Analysis ACS	1173	Liquid	B1N-01 &	2.5L	8	20L

				B1N-04			
10	Hexanes ACS	1208	Liquid	B1N-01 & B1N-04	4L	5	20L
11	Isopropanol HPLC	1219	Liquid	B1N-01 & B1N-04	2.5L	5	12.5L
12	Isopropanol/ 2-propanol/ IPA GR for analysis ACS, ISO, Reag	1219	Liquid	B1N-01 & B1N-04	2.5L	12	30L
13	Methanol, 99.8% or more, AR	1230	Liquid	B1N-01 & B1N-04	2.5L	12	30L
14	Methanol, GR, min 99.8% Old no: 60600925001060	1230	Liquid	B1N-01 & B1N-04	2.5L	14	35L
15	Methanol, Industrial Grade	1230	Liquid	B1N-01 & B1N-04	5L	12	60L
16	Methanol, OPTIMA, 4 LITRE	1230	Liquid	B1N-01 & B1N-04	4L	6	24L
17	Methylene Chloride, Industrial	1593	Liquid	B1N-01 & B1N-04	5L	4	20L
18	N,N,-Dimethylformamide HPLC	2265	Liquid	B1N-01 & B1N-04	2.5	5	12.5L
19	N,N-Dimethylformamide AR old no: 1.07034.2501MS	2265	Liquid	B1N-01 & B1N-04	2.5	15	37.5L
Hazardous Substances							
20	Boric Acid, 98 - 100.5% GR for Analysis	-	Solid	B1N-01	1kg	9	9kg
21	Chloroform, >99.8%	1888	Liquid	B1N-01	2.5L	4	10L

22	Hydrochloric Acid, 37%, Fuming	1789	Liquid	B1N-01	2.5L	4	10L
23	Potassium Hydroxide, Analysis Grade, Pellet	1813	Pellet	B1N-01	1kg	16	16kg
24	Sodium Hydroxide, Analysis Grade Pellets, 99%	1823	Pellet	B1N-01	1kg	12	12kg

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-B1n-05

Person-in-charge: Mr Yong Sing Kwok

Contact Person: Ms Geraldine Loke

Lab address: SBS-B1n-05

Date of update: 14 July 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	70% Ethanol	1170	Liquid	SBS-B1n-05	2.5L	1	5L
2	Ethanol (Absolute for analysis)	1170	Liquid	SBS-B1n-05	2.5L	1	5L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-01S-68 (TCM)

Person-in-charge: Dr Tjioe Yan Yin

Contact Person: Teo Bo Siang, Desmond Yeo

Lab address: SBS-01S - 68

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Ethyl alcohol 70%	UN1170	LIQUID	SBS-01S-46a	4L	14	56L
2	Ethyl alcohol 95%	UN1170	LIQUID	SBS-01S-46a	4L	6	24L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-02S-69 (FACS)

Person-in-charge: Prof Jaume Torres

Contact Person: Abdul Rashid Bin Mohammad Muzaki

Lab address: SBS-02S - 69

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	ETHANOL	1170	LIQUID	SBS-04n-22 (Flammables Cabinet)	5L	1	5L
Hazardous Substances (cc) -NA							
1	FACS CLEAN	Class 8	LIQUID	02S-69	5L	2	10L
2	FACS Rinse	NIL	LIQUID	02S-69	5L	3	15L
3	GB Bleach	Class 8	LIQUID	02S-69	5L	1	5L

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-03N-S1 & 03S-S7 (Mass Spec)

Person-in-charge: Prof Jaume Torres

Contact Person: Meng Wei

Lab address: SBS-03N-S1 & 03S-S7

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	ACETONITRILE	1648	Liquid	03N-S7	4L	10	40L
2	2-PROPANOL	1219	Liquid	03N-S7	2.5L	1	2.5L
3	Methanol	1230	Liquid	03N-S7	4L	2	8L
4	Ethanol	1170	Liquid	03N-S7	2.5L	1	2.5L
5	Acetone	1090	Liquid	03N-S7	2.5L	1	2.5L
Hazardous Substances (cc)							
6	Acetic acid	2789	Liquid	03N-S7	2.5L	1	2.5L
7	Formic acid solution	3412	Liquid	03N-S1	500ml	1	500ml

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS-04S-40 (PPP)

Person-in-charge: Prof Jaume Torres

Contact Person: Jason Neo Jun Long

Lab address: SBS-04S-40

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	2-Propanol	1219	Liquid	04S-40	2.5L	1	2.5L
2	2-Propanol	1219	Liquid	04S-40	2.5L	4	10L
3	Ethanol	1170	Liquid	04S-40	2.5L	2	5L
4	Ethanol (with 5% Methanol)	1986	Liquid	04S-40	2.5L	1	2.5L
5	TEMED	2051	Liquid	04S-40	5mL	3	15mL
Hazardous Substances (cc)							
6	10X Tris-Acetate-EDTA (TAE) Buffer, pH 8.0	-	Liquid	#04S-40	1L	1	1L
7	Ammonium acetate	-	Solid	#04S-40	500g	1	500g
8	Ammonium iron(II) sulphate hexahydrate	-	Solid	#04S-40	500g	1	500g
9	Ammonium sulfate		Solid	#04S-40	1kg	1	1kg
10	Ammonium sulfate		Solid	#04S-40	1kg	1	1kg
11	Antifoam 204		Liquid	#04S-40	1kg	1	1kg
12	Calcium chloride dihydrate		Solid	#04S-40	1kg	1	1kg
13	Calcium chloride, dihydrate, molecular biology grade		Solid	#04S-40	250g	1	250g
14	CHAPS		Solid	#04S-40	100g	1	100g
15	Citric acid monohydrate		Solid	#04S-40	1kg	1	1kg
16	Coomassie brilliant blue, G-250		Solid	#04S-40	25g	8	200g
17	Coomassie brilliantblau G-250		Solid	#04S-40	100g	2	200g
18	D-(+)-Maltose monohydrate		Solid	#04S-40	100g	1	100g

19	D-(+)-Trehalose dihydrate		Solid	#04S-40	250g	1	250g
20	D-Glucose, anhydrous		Solid	#04S-40	500g	1	500g
21	D-Glucose, anhydrous		Solid	#04S-40	1kg	1	1kg
22	Deuterium oxide (D, 99%)		Liquid	#04S-40	5000g	1	5000g
23	di-Potassium hydrogen phosphate		Solid	#04S-40	1kg	1	1kg
24	Disodium hydrogen phosphate dihydrate (Na ₂ HPO ₄)		Solid	#04S-40	1kg	1	1kg
25	D-Sorbitol, minimum 98%		Solid	#04S-40	1kg	1	1kg
26	EDTA		Solid	#04S-40	500g	1	500g
27	EDTA, disodium salt, dihydrate		Solid	#04S-40	1kg	1	1kg
28	Glycerol		Liquid	#04S-40	3L	4	12L
29	Glycine		Solid	#04S-40	1kg	1	1kg
30	Guanidine hydrochloride		Solid	#04S-40	500g	2	1kg
31	Guanidine hydrochloride		Solid	#04S-40	1kg	1	1kg
32	HEPES		Solid	#04S-47A	250g	2	500g
33	Imidazole		Solid	#04S-47A	1kg	1	1kg
34	Imidazole		Solid	#04S-47A	500g	1	500g
35	Imidazole		Solid	#04S-40	2kg	1	2kg
36	Iron (II) Sulfate Heptahydrate		Solid	#04S-40	500g	1	500g
37	Isatin, 98%		Solid	#04S-40	5g	1	5g
38	L-(+)-Arabinose		Solid	#04S-40	100g	2	200g
39	L-(+)-Arabinose		Solid	#04S-40	100g	1	100g
40	L-Arginine		Solid	#04S-40	100g	1	100g
41	Magnesium sulfate anhydrous		Solid	#04S-40	1kg	1	1kg
42	Manganese (II) chloride tetrahydrate		Solid	#04S-40	1kg	1	1kg
43	MES hydrate, SigmaUltra, > 99.5% titration		Solid	#04S-40	50g	1	50g
44	MOPS		Solid	#04S-40	100g	1	100g
45	Nickel (II) chloride hexahydrate		Solid	#04S-40	500g	1	500g
46	Nickel (II) sulfate heptahydrate		Solid	#04S-40	250g	1	250g
47	Oxalic acid dihydrate		Solid	#04S-40	100g	1	100g
48	Piperazine		Solid	#04S-40	25g	1	25g

49	PIPES, free acid		Solid	#04S-40	100g	1	100g
50	Polyethylene glycol, avg MW 8000		Solid	#04S-40	500g	1	500g
51	Polyethylenimine, branched		Liquid	#04S-40	100mL	1	100mL
52	Polyethylenimine, linear (MW 25,000)		Solid	#04S-40	2g	1	2g
53	Potassium acetate		Solid	#04S-40	500g	2	1kg
54	Potassium chloride		Solid	#04S-47A	1kg	1	1kg
55	Potassium citrate tribasic mono moo		Solid	#04S-40	1kg	1	1kg
56	Potassium dihydrogen phosphate (KH ₂ PO ₄)		Solid	#04S-40	1kg	2	2kg
57	Potassium hydroxide		Solid	#04S-40	1kg	1	1kg
58	Rubidium chloride		Solid	#04S-40	50g	1	50g
59	Rubidium chloride		Solid	#04S-40	25g	1	25g
60	Sodium acetate		Solid	#04S-40	1kg	1	1kg
61	Sodium bicarbonate		Solid	#04S-40	1kg	1	1kg
62	Sodium chloride		Solid	#04S-47A	5kg	2	10kg
63	Sodium citrate tribasic dihydrate		Solid	#04S-40	250g	1	250g
64	Sodium dodecyl sulfate		Solid	#04S-40	500g	1	500g
65	Sodium dodecyl sulfate		Solid	#04S-40	500g	1	500g
66	Sodium formate		Solid	#04S-40	500g	1	500g
67	Sodium hydroxide		Solid	#04S-47A	1kg	4	4kg
68	Sodium phosphate, monobasic monohydrate		Solid	#04S-40	1kg	1	1kg
69	Sucrose		Solid	#04S-40	2.5kg	1	2.5kg
70	Sucrose		Solid	#04S-40	1kg	1	1kg
71	SYBR Safe DNA gel stain		Liquid	#04S-40	400ul	1	400ul
72	Tris		Solid	#04S-40	1kg	1	1kg
73	Tris		Solid	#04S-40	500g	1	500g
74	Tris base		Solid	#04S-40	500g	1	500g
75	Trypan blue		Solid	#04S-40	100g	1	100g
76	Tween 20 (10%)		Liquid	#04S-40	1L	1	1L
77	Tween 20 (50%)		Liquid	#04S-40	50mL	2	100mL
78	Tween 20, SigmaUltra		Liquid	#04S-40	100mL	1	100mL

79	Tween 80		Liquid	#04S-40	100mL	1	100mL
80	Xylitol		Solid	#04S-40	100g	3	300g
81	Fos-Choline-12		Solid	#04S-41	25g	8	200g
82	n-Dodecyl- β -D-maltoside (DDM)		Solid	#04S-41	25g	3	75g
83	n-Dodecyl- β -D-maltoside (DDM)		Solid	#04S-41	25g	3	75g
84	n-Dodecyl- β -D-maltoside (DDM)		Solid	#04S-41	10g	4	40g
85	n-Decyl- β -D-thiomaltopyranoside		Solid	#04S-48	25g	2	50g
86	CYMAL-6		Solid	#04S-48	25g	15	375g
87	n-Undecyl- β -D-Maltopyranoside		Solid	#04S-48	25g	4	100g
88	n-Decyl- β -D-Maltopyranoside		Solid	#04S-48	25g	11	275g
89	n-Ocyl- β -D-glucopyranoside		Solid	#04S-48	25g	1	25g
90	n-Undecyl- β -D-Thiomaltopyranoside		Solid	#04S-48	25g	1	25g
91	CYMAL-5		Solid	#04S-48	25g	5	125g
92	n-Dodecyl-N,N-Dimethylamine-N-Oxide		Solid	#04S-48	25g	5	125g
93	Thiamine hydrochloride		Solid	#04S-48	25g	1	25g

Inventory of Petroleum & Flammable Materials/ Hazardous Substances for SBS- B1N & 05N-07 (Teaching Lab)

Person-in-charge: Lew Yi Liang

Contact Person: Siti Nadirah, Leonard Toh Boh Siang

Lab address: SBS-B1N & 05N-07

Date of update: 31 Aug 2026

No.	Type of P& FM / Hazardous Chemicals & Agents	UN Class	Physical Form	Location Stored (FC)	Unit Capacity of Packaging / Container (mL/L/mg/g/kg)	Total No. of Packaging / Container	Maximum Qty Stored On-site (mL/L/mg/g/kg)
Flammable Materials							
1	Acetic acid (glacial)	2789	Liquid	SBS-02N-21, FC1	2.5L	1	2.5L
2	Isopropanol / 2-propanol / IPA	119	Liquid		2.5L	8	20L
3	Methanol	1230	Liquid		2.5L	3	7.5L
4	Methanol	1230	Liquid		4L	1	4L
5	Methanol	1230	Liquid		5L	1	5L
6	Xylenes	1307	Liquid		4L	2	8L
7	Acetone	1090	Liquid		2.5L	3	7.5L
8	Acetone	1090	Liquid		5L	2	10L
9	Hexanes	1208	Liquid		4L	3	12L
10	Acetone (Aliquot)	1090	Liquid		5L	1	5L
11	Alcoholic Eosin Y 515	-	Liquid	SBS-02N-24, FC3	500mL	1	500mL
12	Alcoholic Hematoxylin Solution A	-	Liquid		500mL	3	1500mL
13	DPX Mountant for histology	1263	Liquid		100mL	1	100mL
14	Eosin Y-solution 0.5% alcoholic	1170	Liquid		2.5L	6	15L
15	Ethanol 99% (with 5% Methanol), Industrial [C3]	1987	Liquid		5L	4	20L
16	Ethanol absolute	1170	Liquid		2.5L	12	30L
17	Eukitt Quick-hardening mounting medium	1866	Liquid		100mL	2	200mL
18	Formaldehyde solution, 36.5-38%	2209	Liquid		500mL	1	500mL
19	Gram's crystal violet solution	-	Liquid		500mL	3	1500mL
20	Gram's safranin solution	-	Liquid		500mL	3	1500mL
21	70% Ethanol in 5 L carboy (made from	1170	Liquid		5L	3	15L

	industrial grade ethanol ET099/P5L/F01)						
22	Gas catridges (Butane/Propane mix) (Including those attached to Bunsen burner)	2037	Solid		190g	29	5510g
23	Ethanol, industrial grade	1170	Liquid		5L	1	5L
24	Acetonitrile (HPLC)	1648	Liquid		4L	3	12L
25	Sodium dithionite / Sodium hydrosulfite	1384	Solid		250g	2	500g
26	Zinc	1436	Solid		250g	2	500g
27	BD BBL Gram Decolorizer (3.8 L)	-	Liquid		3.8L	5	19L
28	BD BBL Gram Safranin (250 ml)	-	Liquid		250mL	70	17500mL
29	BD BBL Gram Safranin (3.8 L)	-	Liquid		3.8L	4	15.2L
30	Remel Gram Safranin	-	Liquid		250mL	1	250mL
31	Acetic acid (glacial)	2789	Liquid		2.5L	2	5L
32	Formic acid	1779	Liquid		100mL	1	100mL
33	BD BBL Gram Decolorizer (250 ml)	-	Liquid		250mL	70	17500mL
34	Remel Gram Decolorizer	-	Liquid		250mL	1	250mL
Hazardous Substances							
35	Ammonium hydroxide solution	2672	Liquid		1L	1	1L
36	Aqueous Ferric Chloride Solution B	2582	Liquid		500mL	4	2000mL
37	Biebrich Scarlet-Acid Fuschin Solution	-	Liquid		500mL	3	1500mL
38	Bouin's Fixative (Bouin's Solution)	2922	Liquid		1L	1	1L
39	Bromine	1744	Liquid		450g	3	1350g
40	Iodine Solution	-	Liquid		500mL	5	2500mL
41	Lugol's solution	1760	Liquid		1L	2	2L
42	Phosphoric acid solution	1805	Liquid		1kg	2	2kg
43	Hydrochloric acid 37%	1789	Liquid		2.5L	1	2.5L
44	Hydrochloric acid fuming 37%	1789	Liquid		2.5L	1	2.5L
45	Lactic acid solution	3265	Liquid		2.5g	1	2.5g
46	Nitric Acid	2031	Liquid		1L	6	6L

47	Sulphuric acid	1830	Liquid	SBS-02N-21, FCL2-19 (Corrosive solids)	2.5L	6	15L
48	Crystal violet	2811	Solid		25g	1	25g
49	Imidazole	3263	Solid		100g	2	200g
50	Iron(III) chloride	1773	Solid		1kg	3	3kg
51	Iron(III) chloride	2582	Solid		100g	1	100g
52	Phenylmethanesulfonyl fluoride	2811	Solid		5kg	1	5kg
53	Potassium hydroxide	1813	Solid		1kg	1	1kg
54	Resorcinol	2876	Solid		500g	2	1000g
55	Safranin O	-	Solid		100g	1	100g
56	Sodium hydroxide	1823	Solid		1kg	3	3kg

Inventory of Hazardous Substance at SBS Centralised Storage Location

Person-in-charge: Assoc. Prof Jaume Torres

Date of update: 18 Aug 2026

Lab Storage Address: SBS-02s- 81

Licence Quantity: 2 L

Chemical: Thionyl chloride

No	Name of Chemical	Brand and model	State	Available Balance	Owner/ PI
1	Thionyl chloride	Merck 8.0815410000	Liquid (1L bottle)	800ml	Prof. Liu Chuan Fa

Chemical: Triethanolamine

Licence Quantity: 30L

No	Name of Chemical	Brand and model	State	Available Balance	Owner/ PI
1	Triethanolamine	Sigma 90279	Liquid (100ml bottle)	2L 700ml	Prof. Kanaga Sabapathy

Summary Inventory List of Hazardous Substance Approved

Person-in-charge: Assoc. Prof Jaume Torres

Date of update: 15 Sep 2026

Site -1 address: School of Biological Sciences
60 Nanyang Drive, Singapore 637551

Type of Hazardous Substance	Purity (%)	Physical State	Location stored	Unit Capacity of All Packaging / Container (Metric Tonnes / Kg)	Max. Quantity	Unit
Acetic Anhydride	100.00	Liquid	Site-1	2.5L	50	Lit
Ammonia solution (Except Ammonium Hydroxide)	30.00	Liquid	Site-1	2.5L	20	Lit
Boron Trichloride	100.00	Liquid	Site-1	100ml	1	Lit
Boron Trifluoride	100.00	Liquid	Site-1	250ml	5	Lit
Boron Tribromide	100.00	Liquid	Site-1	50ml	0.5	Lit
Ethylene Dichloride (1,2 Dichloroethane)	100.00	Liquid	Site-1	2.5L	5	Lit
Hydrochloric acid	37.00	Liquid	Site-1	2.5L	300	Lit
Laboratory Reagents (Except those in Annex I)	100.00	Liquid	Site-1	4L	1000	Lit
Laboratory Reagents (Except those in Annex I)	100.00	Solid	Site-1	1Kg	150	Kg
Mercuric chloride	100.00	Solid	Site-1	250gm	0.5	Kg
Pentadecafluorooctanoic Acid, Salts and related compounds	100.00	Solid	Site-1	100g	1	Kg

Sulphuric Acid	98.00	Liquid	Site-1	2.5L	100	Lit
Type of Hazardous Substance	Purity (%)	Physical State	Location stored	Unit Capacity of All Packaging / Container (Metric Tonnes / Kg)	Max. Quantity	Unit
Triethanolamine	100.00	Liquid	Site-1	3L	30	Lit
Thionyl Chloride	100.00	Liquid	Site-1	200ml	2	Lit

Inventory of Explosive Precursors stored at SBS Centralised Storage Location

Person-in-charge: Assoc. Prof Surajit Bhattacharyya

Date of update: 18 Aug 2026

Lab Storage Address: SBS-02s-81 Instrument Room 19

Chemical: Sodium Nitrate

Licence Quantity: 2.0KG

No	Name of Chemical	*EP Identification/ID:	Brand and model	Concentration	Owner/ PI
1	Sodium Nitrate	EP-SN1-02	Sigma S5506 (500g bottle)	Solid >=99.0%	Prof. Oliver Muller Cajar

Chemical: Sodium Nitrite

Licence Quantity: 1.5KG

No	Name of Chemical	*EP Identification/ID:	Brand and model	Concentration	Owner/ PI
1	Sodium Nitrite	EP-SN2-01	Sigma S2252 (500g bottle)	solid 99%	Prof. Liu Chuan Fa

Chemical: Ammonium Nitrate

Licence Quantity: 2.0KG

No	Name of Chemical	*EP Identification/ID:	Brand and model	Concentration	Owner/ PI
1	Ammonium Nitrite	EP-AN-01	221244 (500g bottle)	solid 99%	Prof. Miao Yansong

Chemical: Potassium Nitrate

Licence Quantity: 1.0KG

No	Name of Chemical	*EP Identification/ID:	Brand and model	Concentration	Owner/ PI
1	Potassium Nitrate	EP-PN-02	Sigma P8291 (500g bottle)	solid 99%	Prof. Miao Yansong
2	Potassium Nitrate	EP-PN-03	MP 191428 (100g bottle)	solid 99%	Prof. Liang Zhao-xun

3	SCHENK & HILDEBRANDT BASAL SALT MEDIUM (Potassium Nitrate content 125g)	EP-PN-08	Duchefa Biochemie S0225 (10L)	solid	Prof. Jarkko Tapani Salojarvi
4	Potassium Nitrate	EP-PN-10	Sigma 221295 (100g bottle)	solid 99%	Prof. Marek Mutwil/ Prof. Jarkko Tapani Salojarvi
5	Potassium Nitrate	EP-PN-11	Sigma 221295 (100g bottle)	solid 99%	Prof. Marek Mutwil/ Prof. Jarkko Tapani Salojarvi
6	Potassium Nitrate	EP-PN-12	Sigma 221295 (100g bottle)	solid 99%	Prof. Marek Mutwil/ Prof. Jarkko Tapani Salojarvi

Chemical: Hydrogen Peroxide

Licence Quantity: 5.0 Litres

No	Name of Chemical	*EP Identification/ID:	Brand and model	Concentration	Owner/ PI
1	Hydrogen peroxide	EP-HP-01	Sigma H1009 (500ml bottle)	30%	Prof. Gerhard Gruber / Phat DIP
2	Hydrogen peroxide	EP-HP-02	MP 194057 (500ml bottle)	20-40%	Prof. Gerhard Gruber
3	Hydrogen Peroxide	EP-HP-06	Sigma H1009 (500ml bottle)	30%	Prof. Lu Lei
4	Hydrogen Peroxide	EP-HP-07	Merck 386790 (100ml bottle)	31.67%	Prof.Zbynek Bozdech
5	Hydrogen Peroxide	EP-HP-09	Tokyo Chemical Industry H1222 (300ml bottle)	35.00%	Prof. Liu Chuan Fa
6	Hydrogen Peroxide	EP-HP-10	Merck 107209 (1L bottle)	30.00%	Prof. Kanaga Sabapathy

Chemical: Perchloric Acid**Licence Quantity: 3.0 Litres**

No	Name of Chemical	*EP Identification/ID:	Brand and model	Concentration	Owner/ PI
1	Perchloric acid	EP-PA-01	Sigma 244252 (100ml bottle)	70%	Prof. Yoon Ho Sup
2	Perchloric acid	EP-PA-02	Sigma 77230 (100ml bottle)	70%	Prof. Surajt Bhattacharyya
3	Perchloric acid	EP-PA-03	Sigma 244252 (100ml bottle)	70%	Prof. Par Nordlund
4	Perchloric acid	EP-PA-04	Sigma 244252 (500ml bottle)	70%	Prof. James Tam
5	Perchloric acid	EP-PA-05	400 ml bottle	70%	Prof. James Tam

PREMISES EMERGENCY DATAReference No: SBS-PED-2026-01Name of Premises: School of Biological Sciences, Nanyang Technological UniversityAddress of Premises: 60 Nanyang Drive (S)637551Date of Last Survey: 15 Sep 2026Conducted By: Chelliah Rosi / Yong Sing Kwok**1. THREAT ASSESSMENT**HRI Class: ☐ HFLP ☐ ISP ☒ TICP ☒ FMP ☒ BAP ☒ RAP ☐ Non-HRI

Risks present: ☐ Sensitive Installations ☒ Flammable Materials ☒ TICs

☒ Biological Agents ☒ Radiological Agents (Tick where applicable)

Abbreviations:

1. HFLP = High Fire Load Premises
2. ISP = Important & Sensitive Premises
3. TICP = Toxic Industrial Chemical Premises
4. FMP = Flammable material Premises
5. BAP = Biological Agent Premises
6. RAP = Radiological Agent Premises
7. TIC = Toxic Industrial Chemical

2. OCCUPANCY LOAD

Location	Peak Hrs	No. of Occupants (Peak Hrs)	Non-Peak Hrs	No. of Occupants (Non- Peak Hrs)
SBS Building North Wing	0830hrs-1800hrs	300	1800hrs-0830hrs	15
SBS Building South Wing	0830hrs-1800hrs	200	1800hrs-0830hrs	15
Total Premises Occupancy	-	500	-	30

3. OCCUPANCY USAGE & KEY ACTIVITIES

Block / Tower	Level	Usage & Key Activities
SBS North Wing Level 1	Main Lobby North Wing - 01n	Function Hall Administration Office Classrooms 1-7 Student Resource Centre SBS Clade Room
SBS South Wing Level 1	South Wing - 01s	Centre for Cross Economy (CCE) TCM Office and Clinic College of Science (CoS) Office
SBS North Wing Levels 2 to 5	North Wing - 02n North Wing - 03n, 04n, 05n	Student Lounge Research Laboratories / Core Facilities / Teaching Laboratories Research Laboratories/ Core Facilities/ Teaching Lab office
SBS South Wing Levels 2 to 4	South Wing - 02s, 03s, 04s	Research Laboratories/ Core Facilities

Block / Tower	Level	Usage & Key Activities
SBS Basement 1	B1n-Carpark B1n-10 Café by The Quad	Basement Carpark and Café by The Quad managed by HAS
SBS Basement 1	B1n-01 B1n-03 B1n-04 B1n-S2/-06/-07/-08/-09/-10 B1n-S3 B1n-12/-13/-15/-16 B1n-17 B1n-18 B1n-M13	General Store (GS) NMR Laboratory Media Prep (GS) Waste Storage Rooms Glassware Washing/Autoclave Room Workshop (GS) Teaching Wet Laboratories Teaching Lab Microscope Room Computer Teaching Lab Bio beam room (Under the charge of Animal Research Facilities)
SBS South Wing Basement 1	B1n - SBS Gas storage (Basement Carpark Exit/Entrance)	Gas Cylinder Storage

4. KEY PERSONNEL CONTACT DIRECTORY

Name	Designation	Emergency Appointment	Tel No. (Day)	Tel No. (Night)	H/P No.
Prof. Kanaga Sabapathy	SBS Chair	-	6316 2822	6790 5200 (NTU Emergency)	-
Dr. Liew Chong Wai	Deputy Director, Business Operations	Site Main Controller	63162806		-
Mr. Yong Sing Kwok	Senior Assistant Manager, Building and Facilities Management	Site Incident Controller	6316 2814		-

5. IN-HOUSE ERT RESOURCES

S/No.	Manpower	Capabilities
1	Lew Yi Liang	Teaching Lab (CERT/ Spill Management)
2	Abdul Rashid Bin Mohammad Muzaki	Flow-cytometry Core Facility (CERT/Spill Management)

S/No.	Equipment/ Appliances	Quantity
1	First Aid Box	13
2	Stretcher	1
3	Wheelchair	1
4	Safety Shower	1 each lab
5	Eye-wash station	1 each lab
6	Spill Kit	1 each level/wing
7	SCBA	1

6. FIRE RISKS

Location	Description	Contents & Quantity	UN No. & Hazchem Code	Key Protection Systems
SBS labs & store	Flammable Materials & Petroleum Products	Refer to Annex C	Class 3 & 4	Fire Safety Cabinets, Fume hood, Fire Safety Facilities

7. FIRE PROTECTION SYSTEMS

A FIRE COMMAND CENTRE& FIRE ALARM SYSTEM

Levels	Fire Alarm Panel	Location
SBS-B4n-01 (Basement 4)	Fire Command Centre (FCC)	Main Alarm Panel with PA/Intercom system
North Wing	Sub Alarm Panel (SAP) at All levels (B4N – 5N)	SAP-B4-1 SAP-B3-1 SAP-B2-1 SAP-B1-1 SAP-L1-1 SAP-L2-1 SAP-L3-1 SAP-L4-1 SAP-L5-1
South Wing	Sub Alarm Panel (SAP) at All Levels (B1S–4S)	SAP-B1-2 SAP-L1-2 SAP-L2-2 SAP-L3-2 SAP-L4-2

B EMERGENCY RESPONSE PLAN (ERP)

S/No.	Location of ERP	Assembly Area	No. of Fire Wardens
1	- SBS All Levels SBS Safety Webpage	- Primary assembly area: The Quad @ SBS - Secondary assembly area (During wet weather): Nanyang Auditorium foyer area.	26

C FIRE SUPPRESSION SYSTEMS

No.	Detector Type	Availability	Location
1	Sprinkler	Yes	Entire Building
2	Inert Gas	Yes	Data Server Room
3	Pump Room	Yes	SBS-B4N-F11
4	Water Tank	Yes	SBS-B4N-11
5	Fire Extinguishers/Blanket	Yes	All levels
6	Smoke Detectors	Yes	All levels
7	Hose Reel	Yes	All levels

D RISING MAINS

No.	Location of Inlet	Inlet No.	Service
1	Level 1, Staircase 1	Breeding 1-5	7
2	B4n, Staircase 2	Breeding 2-5	10
3	B4n, Outside of Sprinkler plant room	Breeding 3-5	7
4	Level 1, Staircase 2	Breeding 4-5	4
5	Level 1, Staircase 5	Breeding 5-5	6

E FIRE LIFTS / STAIRCASES

S/No.	Lift No.	Staircase No.	Location	Floor served
1	Fire Lift 1	-	North Wing near Restrooms & Pantries	B2, Level 1- 5
2	-	Staircase 1	North Wing near Restrooms & Pantries	Level 1- 5
3	Fire Lift 4	-	North Wing behind lift 2 & 3	B4 – level 5
4	-	Staircase 2	North Wing behind lift 2 & 3	Level 1- 5
5	Fire Lift 7	-	South Wing near College of Science Office	B1, Level 1- 4
6	-	Staircase 4	South Wing near College of Science Office	Level 1- 4

F	OTHER LIFTS / STAIRCASES
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S/No.	Lift No.	Staircase No.	Location	Floor served
1	Lift 2,3	-	North Wing Lobby near SBS General Office	B3 - B1, Level 1 - 5
2	Lift 5,6	-	South Wing Lobby near College of Science Office	B1, Level 1 - 4

8. TIC RISKS

Location	Description	Contents & Quantity	Protection System
SBS Labs & Store	Hazardous Substances	Inventory available from each lab	Electronic lock system to the labs (No unauthorized access)

9. MITIGATION& CONTAINMENT SYSTEMS

No.	Containment System	Locations
1	Fume Hoods	Research laboratories at all levels and Teaching Laboratories at North Wing level 2
2	Security doors	Doors with phone access

10. BIOLOGICAL AGENTS – STATE NA IF NOT APPLICABLE

Location	Description	Contents & Quantity	Protection System
SBS BSL2 Labs	Biological Agents	Information available from each lab	Electronic lock system to the labs (No unauthorized access)

11. BIOLOGICAL PROTECTION SYSTEMS

No.	Containment system	Locations
1	Biological Safety Cabinets (BSC)	Research laboratories at all levels and Teaching Laboratories at North Wing Level 2 and Basement 1
2	Security Doors	Doors with phone access

12. RADIOACTIVE AGENTS

Location	Description	Half-Life Protection	System
SBS Labs	Inventory available from each lab		Electronic lock system to the labs (No unauthorized access)

13. RADIOLOGICAL PROTECTION SYSTEMS

S/No.	Radiological Protection	Location	Remarks
1	Bench-top shield	Research Laboratories at all levels	
2	Perspex box for radioactive waste	Research laboratories at all levels	
3	Thermo-luminescent dosimeter for monitoring of exposure	NA	With each radiation worker
4	Security doors	Research laboratories at all levels	Doors with phone access

14. SENSITIVE INSTALLATIONS – NA

Location	Description	Occupancy	Usage

15. ADJACENT BUILDINGS / INSTALLATIONS

Name of Installation	Risk Type	PED Reference No.
School of Chemistry, Chemical Engineering and Biotechnology (CCEB)	Sensitive Installations ☒ Flammable Materials × TIC ☒ BA ☐ RA	-
Singapore Centre on Environmental Life Sciences Engineering (SCELSE)	Sensitive Installations ☒ Flammable Materials × TIC ☒ BA ☐ RA	-
Research Techno Plaza (RTP)	Sensitive Installations ☒ Flammable Materials × TIC ☒ BA ☐ RA	-
Experimental Medicine Building (EMB)	Sensitive Installations ☒ Flammable Materials × TIC ☒ BA ☐ RA	-

OTHER PREMISES- SPECIFIC EMERGENCY PLANS & STANDARD OPERATION PROCEDURES

1. Fire

In the event of the presence of fire or smoke, activate the nearest fire alarm “break-glass” manual call- point. Otherwise, alert FCC through the Fireman Intercom in the fire-fighting lobby and/or Campus Security through 24hr Campus Security Hotline at 6790 5200. Alert people in the vicinity so that they can begin evacuation.

Attempt to extinguish any incipient fire with fire-fighting equipment without taking personal risk (and only if you know how to use the fire-fighting equipment). Otherwise evacuate to the assembly area (AA).

2. Medical Emergency

In the event of a medical emergency, take the following action:

- a) Apply first aid / Cardiopulmonary resuscitation (CPR) if he or she is trained. Otherwise call any first aider on the first aider contact list.
- b) For non-emergency case, call private ambulance at telephone no. 1777.
- c) For emergency case (unconscious victim), call SCDF ambulance at telephone no. 995.
- d) Should the need arise, the Site Incident Controller (SIC) may instruct an employee to use the company car to deliver the casualty to one of the medical centers below:

Medical Centre	Address	Telephone
Ng Teng Fong General Hospital	1 Jurong East Street 21 Singapore 609606	6716 2000
NTU Medical Centre (Raffles Medical, NTU)	University Health Service Building 36 Nanyang Avenue Singapore 639801	6793 6974 / 6793 6828
Health way Jurong West Clinic (8:30 am to 12 Midnight)	Blk 690 Jurong West Central 1 #01-193 Singapore 640690 (next to Jurong Point)	6792 1812 / 6791 5719

3. Structural Collapse

In the event of a structural collapse and risk of being trapped in falling debris, take the following action:

- a) Immediately take cover under a desk, table or other object that will protect you from falling objects and flying debris.
- b) Use torchlight if possible as the area may be dark.
- c) Stay in your area so you don't kick up dust. Cover your mouth with a handkerchief or cloth.
- d) Tap on a pipe or wall so that rescuers can hear where you are. Use a whistle if you have one. Shout only if you cannot make noise any other way. (Shouting can cause you to inhale dangerous amounts of dust).

4. Chemical Agent Attack / Leakage

Intentional or accidental release of a chemical agent can kill, seriously injure or incapacitate people. Most chemical agents are toxic when inhaled and may cause injury on exposure to the eye, skin or respiratory system.

(a) Possible sign of chemical agents attack / leakage:

Many people are falling sick and display signs and symptoms such as watery eyes, shortness of breath, headache, vomiting etc.

(b) In the event of a chemical agent attack / leakage within the building

Quickly determine the affected area within your floor, if possible.

- i. Alert all personnel in the vicinity and leave the area immediately without passing through the contaminated area.
- ii. Cover your mouth and nose with a mask.
- iii. Isolate the air conditioning system and run exhaust to maximum.
- iv. If conditions require an immediate evacuation from the building, you will be instructed to go to the designated AA or another assembly point.

(c) In the event of a chemical agent attack / leakage outside the building

- i. Cover your mouth and nose with a handkerchief or cloth.
- ii. Do not walk into the wind as it may carry along the hazardous chemical.
- iii. Get inside a building as soon as possible.
- iv. Shut down the Air-condition and Mechanical Ventilation (ACMV) system within the building.
- v. If conditions require everyone to remain inside the building, you should remain in the building as per In-Place Protection Plan (IPP).

(d) In the event of a chemical agent exposure

- i. Remove clothing and wash the affected area with emergency eyewash and/or safety shower immediately.
- ii. Seek medical attention immediately.
- iii. Do not try to administer first aid to him / her unless it is safe to do so. Otherwise, you may be affected by the chemical and become a casualty too.
- iv. Maintain distance from victim and call the emergency numbers for help

5. Biological Agent Attack

A biological agent attack is the deliberate release of biological agents aimed to incapacitate or kill people. Biological agents may be ingested, inhaled or enter through a skin cut to cause the effect. Some agents, such as smallpox, are contagious and can result in diseases that are spread from one person to another person. On the other hand, other agents, such as anthrax, are not contagious.

(a) Possible signs of a Biological agent attack

A biological agent attack may not be immediately obvious as there is an *incubation period* during which the ill effects of the agent are not obvious. Look out for these signs:

- i. Unusual powdery or gel-like substance and suspicious spraying device.
- ii. Reports by Ministry of Health (MOH) or media about a pattern of unusual illnesses in the community or a wave of sick people seeking emergency medical attention.

(b) In the event of a chemical agent attack / leakage within the building

- i. Quickly determine the affected area within your floor, if possible.
- ii. Alert all personnel in the vicinity and leave the area immediately without passing through the contaminated area.
- iii. Cover your mouth and nose with a respiratory N95 mask if possible.
- iv. Shutdown the ACMV system within the building.
- v. If conditions require an immediate evacuation from the building, you will be instructed to go to the designated AA or another assembly point.

(c) In the event of a biological agent exposure

- i. Shower immediately under the emergency shower.
- ii. Don respiratory protection if you intend to approach someone suspected of exposure to a biological agent. Otherwise, keep a distance from the person and avoid direct contact.
- iii. Seek medical attention immediately and heed advice provided by the MOH.

6. Anthrax

Anthrax is a disease caused by bacteria. The powdery form of anthrax, though not contagious, is a biological threat to personnel safety. The SCDF, Police, Ministry of Health and Singapore Post have taken precautionary measures to deal with this threat. Staff are advised to stay calm and exercise vigilance so as to detect any signs of a possible threat.

Guidelines for Handling Articles Suspected of Containing Anthrax:

- i. Do not handle the article directly. If the article is already opened, cover the spilled contents immediately with an item such as clothing, plastic cover, paper or a trash can. Do not remove the cover.
- ii. Do not sniff at the spilled contents or attempt to clean up the spilled material.
- iii. Shutdown the ACMV system in the affected area or room.
- iv. Do not handle the article directly. If the article is already opened, cover the spilled contents immediately with an item such as clothing, plastic cover, paper or a trash can. Do not remove the cover.

- v. Do not sniff at the spilled contents or attempt to clean up the spilled material.
- vi. Shutdown the ACMV system in the affected area or room.
- vii. Leave the room and close the door or cordon off the area to prevent others from entering.
- viii. Go to the nearest toilet or washing point and wash your hands and any exposed skin with soap and water. At the earliest opportunity, remove all clothing and shower. Do not use bleach or other strong disinfectants on your skin. The clothing should be sealed in a biohazard bag.
- ix. Contact the Campus Security and wait for further instructions.
- x. Prepare a list of names and contact numbers of all persons who were in the area of the suspicious article. Give the list to the Security for follow-up investigations.

7. Tremors

Earthquakes are rare in this region, but tremors can be felt. Here are some steps to follow during and immediately after tremors:

- i. If indoors, seek refuge in a doorway or under a desk or table. Stay away from glass windows, shelves and heavy equipment. Exit the building only after the shaking has stopped.
- ii. Do not be alarmed if electricity or building fire alarm or sprinklers are activated.
- iii. If outdoors, move quickly away from buildings, utility poles, and other structures. Always avoid power or utility lines.
- iv. If in a vehicle, stop in the safest place available, preferably in an open area away from power lines and trees. Stop as quickly as safety permits but stay in the vehicle for the shelter it offers.
- v. After the tremors stop, evaluate the situation by checking on the building structural defects and report any gas leak.
- vi. If the building is declared unsafe for occupancy, assist people, especially those with disabilities, to evacuate the building.
- vii. If emergency help is necessary, contact SCDF or Police at 995 and protect yourself at all times and be prepared for aftershocks immediately afterwards.
- viii. Once outside, move to a clear area away from buildings, utility poles, or other structures.

8. Bomb Threat

All bomb threats must be taken seriously.

If anyone sees a suspicious object or unexploded bomb, they should do the following:

- i. Do not move any suspicious object or unexploded bomb.
- ii. Move away from the area and alert co-workers and others on the floor and the rest of the building.
- iii. Do not use communication devices such as handphones, walkie-talkie sets within 15 metres of the suspicious object or unexploded bomb, as these may inadvertently set off the item. Use a landline telephone where available to contact Campus Security.
- iv. Evacuate the building immediately via the emergency escape routes.

If your office receives a bomb threat, the recipient of the call should:

- i. Remain calm. Do not hang up on the caller until all vital information is obtained. Listen and do not interrupt the caller. Respond in a matter-of-fact manner, asking the caller to repeat what he has said to you. Gather as much information as possible. Remember all details of the conversation and contact Campus Security at 6790 5200.
- ii. Do NOT activate the fire alarm yourself. The decision to activate the alarm will be made by Campus Security.
- iii. Upon consultation with Police and SCDF, Campus Security will prepare the building for evacuation. They will ensure that Security is positioned at each building entrance to prevent re-entry.
- iv. The Police, the Bomb Squad and other relevant authorities will conduct a building search for the bomb.
- v. No access to the building will be granted until the search has been completed, the suspicious package or device has been removed or deactivated, and SCDF or Police clears the building for re-entry.

When a letter / parcel bomb is received:

- i. Do not attempt to open it. Most bombs are designed to detonate when the outer wrapping is cut open or torn.
- ii. If you are not sure of the origin of the letter / parcel but have reason to suspect that it is a bomb, treat it like a bomb and alert the Campus Security.
- iii. Place the suspected letter/ parcel bomb in a corner of the room, away from the windows.
- iv. Evacuate the building immediately.

9. Utility Failure

(a) Power Outage

In the event of a power outage in your area, remain calm and follow these steps:

- i. Remain where you are and open all available blinds or shades to provide outside light. If you are in an unlit area without windows, go cautiously to an area that has emergency lights or outside lights.
- ii. Call the Campus Security to inform them of any people trapped in lifts during power failure or blackout.
- iii. Staff should not attempt to rescue person(s) in lifts.
- iv. Staff or visitors trapped in lifts should stay calm, press the alarm button in the lift and wait for help to arrive.
- v. If telephones or handphone are working, call and report the outage to Campus Security.
- vi. Wait for further instructions.

(b) Water Line/ Sewer Failure

In the event of a water line/sewer failure, remain calm and follow these steps:

- i. Notify Campus Security.
- ii. Advise them of the severity and location of the problem.
- iii. Indicate if any objects are in imminent danger.
- iv. Use extreme caution if any electrical appliances/outlets are near the water.
- v. Stop using all electrical equipment.
- vi. If the source of the water is known and you are confident you can stop it safely, (i.e. unclog the drain, turn off the water), do so cautiously.
- vii. Assist with protecting objects from water damage by removing them from the area.
- viii. If directed to evacuate, follow the same directions for a building evacuation.

10. Gas Leakage

In the event of a gas leakage or smell of gas in a building, remain calm and follow these steps:

- i. Immediately contact Campus Security and give them information concerning the location of the smell and the time that the smell was detected.
- ii. If there is any open flame or heating equipment in the affected areas, switch them off immediately.
- iii. Remain at a safe distance from the source of the gas leakage.
- iv. If directed to evacuate, follow the same directions for a building evacuation.

- v. Immediately contact Campus Security and give them information concerning the location of the smell and the time that the smell was detected.
- vi. If there is any open flame or heating equipment in the affected areas, switch them off immediately.
- vii. Remain at a safe distance from the source of the gas leakage.
- viii. If directed to evacuate, follow the same directions for a building evacuation.

Do not enter the building until SCDF declares the building safe for re-entry.

11. Multiple Casualties or Deaths

Multiple casualties or deaths require an emergency response and is most likely caused by a major accident or medical epidemic. As a general rule one should immediately call Campus Security. The first person on the scene should follow these procedures:

- i. Ensure that the area is safe before rendering help to the victim. Do not put himself / herself in danger.
- ii. Keep other people from viewing the victim and the surroundings.
- iii. Escort the victim to a safe area if the victim is conscious. If the victim is unconscious, do not move him.
- iv. Contact the ambulance service and send them to the nearest hospital.
- v. If the victim is dead, do not move or allow access to the body, or to the area where the body was found, to anyone other than Police or medical emergency personnel.
- vi. Do not touch or attempt to move any physical evidence in the surrounding area.

12. Spillages

(a) Chemical spillages (up to maximum of a 20L carboy)

In case of chemical spill in the laboratory, please take the following steps:

- i. Push the emergency button on the control panel of the fume hood nearest to the site of the spill to increase the exhaust rate.
- ii. Avoid the area between the spill and the activated fume hood as majority of the fumes produced by the spill will be drawn along that path due to the increased exhaust rate of the fume hood.
- iii. Cordon off the affected area if possible and warn all personnel in the vicinity of the spill.
- iv. Inform the Principal Investigator in charge of the laboratory about the type of chemical, the location and extent of the spill.
- v. Attempt to clean up the chemical spill using the spill kits and appropriate PPE provided in the Safety Equipment Cabinet located on each floor.

(b) Biological spillages

The following procedures are basic clean-up procedures. It is the responsibility of the Principal Investigator to ensure appropriate procedures for the materials used in the lab are available.

If cannot handle the spill or spillage more than 5L, call ERT

Spillage within a Biological Safety Cabinet (BSC)

- Leave the blower on. Lower the sash.
- Broken objects like vials/containers contaminated with infectious substances or spilled infectious substances or cultures should be covered with paper towels.
- Pour appropriate disinfectant over these, working from the outside of the paper towels towards the inside. Leave to react for 30min.
- Barricade and/or put-up warning notice.
- Pick up the paper towels with tongs into biohazard bag. Pick up any broken glasses with forceps or brush and dustpan and place them in sharp bin.
- Clean and disinfect the contaminated area including any items within the BSC (walls and surface wipe down). Final wipe down with sterile water or 70% ethanol to remove residual disinfectant.
- On blower 10-15mins.
- Appropriate PPE like gloves, lab coat etc. should be worn.
- Incident reporting procedure (report to PI, Safety rep, SBS Safety, iRis within 24 hrs.).

Spillage outside a BSC, in the lab

- Seek help from CERT if needed.
- Evacuate the room and allow any aerosols to disperse and settle for at least 30min before re-entering the room.
- Cover the spill area with paper towels or absorbent materials.
- Pour appropriate disinfectant working from the outside of the paper towels/absorbent materials towards the inside of the spill. Leave to react for 30min.
- Barricade or put-up warning notice.
- Pick up the paper towels with tongs into biohazard bag. Pick up any broken glasses with forceps or brush and dustpan and place them in sharp bin.
- All adjacent areas to be disinfected and wipe down.
- Appropriate PPE like gloves, lab coat etc. should be worn.
- Incident reporting procedure (report to PI, Safety rep, SBS Safety, iRis within 24 hrs.).

Biological spillages (up to maximum of a 5L flask in the laboratory)

- Notify others and seek help from CERT. The SBS Safety and ERT should be notified immediately.
- Cordon off the affected area if possible and warn all personnel in the vicinity of the spill.
- Leave the area to allow any aerosols to settle.
- Inform the Principal Investigator in charge of the laboratory about the type of biological agent, the location and extent of the spill.
- Attempt to clean up the biological spill using the spill kits located in the core area on each floor.
- For extensive biological contamination, external contractors that specialize in decontamination of biological agents will be engaged to conduct the clean-up.
- Incident reporting procedure (report to PI, Safety rep, SBS Safety, iRis within 24 hrs.).

ROLES AND RESPONSIBILITIES OF CERT

SITE MAIN CONTROLLER (SMC)

SMC is the senior member of the installation management. He is the person who is overall in-charge of the emergency response operations in the installation and liaises with senior officials of government agencies such as SCDF, SPF, NEA, etc. Under circumstances whereby the SMC is unable to leave the plant, he/she may appoint another suitable representative to link up with the Incident Manager at TACT HQ.

The Site Main Controller (SMC) – Liew Chong Wai (Dr) (6316 2806)

THE KEY RESPONSIBILITIES OF THE SMC INCLUDES:

- (a) Coordinate the activities of external emergency organizations and work closely with the Incident Manager at TACT HQ during consequence management.
- (b) Provide TACT HQ with the following information:
 - i) Site Layout Map.
 - ii) Building plan.
 - iii) Company Emergency Response Plan.
 - iv) Company's hazmat inventory and location of hazmat inventory.
 - v) Overall workers population.
 - vi) Incident resources available at site.
- (c) Provide the Incident Manager with the necessary information and decisions to any actions that concern the company SOPs and policies.
- (d) Authorize the shutdown of operations in the installation.
- (e) Authorize the release of information to the media and government agencies; and
- (f) Assist the Incident Manager in determining the termination of the emergency and authorizing re-entry upon complete recovery.

SITE INCIDENT CONTROLLER (SIC)

He / She shall be a senior member of the installation supervisory staff. He is overall in-charge of the actual ground response operations. He / She is to provide assistance and information to SCDF ground commander during operation.

The LO is Site Incident Controller (SIC) – Yong Sing Kwok (Mr) (6316 2814)

THE KEY RESPONSIBILITIES OF SIC INCLUDES:

- (a) Establishing the on-site Emergency Response Team.
- (b) Sizing up incident situation and recommending response strategy and tactical plan.
- (c) Determining incident control zones.
- (d) Setting up field incident command post.
- (e) Commanding and directing emergency response team.
- (f) Ensuring emergency responders' safety and monitor personnel fatigue and stress.
- (g) Deploying emergency equipment and appliances.
- (h) Directing rescue operations if necessary.
- (i) Maintaining constant communication with SMC and the emergency responders.
- (j) Working closely with SCDF ground officer.
- (k) Ensuring proper decontamination of the equipment and responders; and
- (l) Coordinating recovery activities.

SCHOOL SAFETY COMMITTEE (SSC)

Name	Position	Role in SSC	Contact
Sandip Basak	Assistant Professor	Chairperson	6908 2204
Liew Chong Wai (Dr)	Deputy Director, Business Operations	Member	6316 2806
Jaume Torres	Associate Professor	Member	6316 2857
Choe Young Jun	Assistant Professor	Member	6514 1007
Xiao Tianshu	Assistant Professor	Member	6513 8043
Ma Wei	Associate Professor	Member	6904 7230
Oliver Mueller-Cajar	Associate Professor	Member	65923184
Yong Sing Kwok	Senior Assistant Manager, BFM	Member	6316 2814
Lew Yi Liang	Senior Assistant Manager, Teaching Lab	Member	6592 1795
Chen Ming Wei	Manager, Laboratory Operations	Member	6513 7461
Ye Hong	Manager, Nuclear Magnetic Resonance	Member	6316 2920
Meng Wei	Senior Assistant Manager, Laboratory Services	Member	6592 2639
Chelliah Rosi	Assistant Manager, Health & Safety	Member	6592 3932
Lai Soak Kuan (Dr)	Principal Research Scientist	Member	6514 1080
Geraldine Loke Yoke Lan	Senior Executive, BFM	Member	6316 2878
Boo Zhao Zhi (Dr)	Environmental Health & Safety Manager (Office of Health And Safety)	Member	6592 7732

The SSC is scheduled to meet at least **quarterly (Once every 3 months) on a regular basis or when necessary.**

At such meeting:

- The Safety Chair will chair the meeting
- The School Safety Manager will report safety issues and incident notification received since previous meeting
- The committee will discuss relevant issues, violation of safety rules and regulations and appropriate actions
- The committee will develop and monitor a system to ensure adherence to safety rules and regulations

RESPONSE TEAM (RT)

CERT Team

CERT Member	Dept.	Contact No.
Yong Sing Kwok	Building & Facilities Management	6316 2814
Lew Yi Liang	Teaching Labs	6592 1795
Chen Ming Wei (Dr.)	BRC	6513 7461
Abdul Rashid Bin Mohammad Muzaki (Dr.)	Flow-cytometry Core Facility	6592 1545
Henry Dass S/O Selvaraj	Teaching Labs	6316 2837

- On hearing the first alarm, assemble at marshalling area and get ready PPE.
- Receive notification from LO on the location of the fire.
- Proceed to location of the fire and pick up fire extinguisher along the way.
- Attempt to put off **without taking personal risk**, leave the building if the fire is beyond control.
- Assist casualty to marshalling area for medical attention.
- Render first aid when needed or proceed to location if called upon.
- Deploy to contain spill, clean up and check area, if necessary.
- Assist SCDF personnel in areas related to his specialization (if required).

The CERT consists of personnel trained in basic emergency response actions such as firefighting, HazMat mitigation and other supporting activities such as security, evacuation, first aid etc.

THE KEY RESPONSIBILITIES OF CERT INCLUDES:

- (a) Conduct basic emergency response actions such as firefighting and HazMat mitigation under the command of SIC.
- (b) Follow SCDF's course guidelines in containment of the situation.
- (c) Assists in emergency notification of neighbouring premises and conducts public protective actions under the command of SIC.
- (d) Accounting for personnel inside and outside of the hazard risk zone under the command of SIC / SMC and assist SIC / SMC to ensure the smooth and orderly evacuation of all company's employees by guiding them to designated Evacuees Assembly Area (EAA).
- (e) Implementing In-Place protection (IPP) within the workplace under the command of SIC.
- (f) First Aid personnel should perform basic first aid on any casualty.
- (g) Security wardens should secure the company's premises and facilitate rapid movement of SCDF responders upon their arrival.

Emergency Coordinating Team (ECT)

ECT Member	Dept.	Contact
Eugene Lee Hong Yee	Academic	6514 8392

- On hearing the first alarm, assemble at marshalling area and put on ID Vest.
- Receive status of building (fully cleared or not) from FWs.
- Report and update the evacuation status to the LO and / or UFSM.
- Confirm any missing person quickly

Fire Wardens / Assistant Fire Wardens**THE KEY RESPONSIBILITIES OF FIRE WARDENS / ASSISTANT FIRE WARDENS INCLUDES:****Fire Wardens (FW)**

Location	Fire Warden	Contact
SBS Level B1	Xia Yinyan Chua Chong Jin Manimaran s/o Joseph Mar Lar Soe	6316 2874 6316 2874 6316 2874 6316 2874
SBS Level 1 (North - GO)	Geraldine Loke Kaydence Kwek Elaine Lee Mei Chen (CoS)	6316 2787 6316 2837 6592 3163
SBS Level 1 (South – TCM)	Desmond Yeo (TCM) Heng Wen Jie (TCM)	6592 3505 -
SBS Level 2 (North)	Zhen Yashu Derrick Chia	6514 8380 6316 7088
SBS Level 2 (South)	Apuli Rami-Petteri Matias Xie Yi	6908 2228 -
SBS Level 3 (North)	Divyanshu Mahajan Sheriff Ryna Shireen Battineni Abhinga	6316 2831 6516 2834 6514 1080
SBS Level 3 (South)	Ardina Gruber Ragunathan Priya	6316 2926 6316 2926
SBS Level 4 (North)	Michal Kucharski Donald Tay Pan Chen Yi Daryl	- 6316 2898 -
SBS Level 4 (South)	Wahyu Surya Guan Jia Sheng	6316 2855 -
SBS Level 5 (North)	Jean Michel Carter Chong Zhuen Wen	6316 2817 -

- On hearing the first alarm, assemble at marshalling area and put on ID vest. Collect whistle and flashlight.
- Check floor fire alarm sub-panel to confirm if activation is on their floor.
- If alarm is activated, check location for fire or sprinkler being discharged. Confirm with NTU Emergency (6790 5200) if fire is seen. State: “Emergency! Your name, contact no., building and location”. Alternatively, you may activate call point in the same area to confirm emergency if you cannot reach a phone.
- Ensure occupants evacuate floor immediately. Do not wait for second stage alarm.

- Ensure occupants evacuate using the nearest emergency exits.
 - Check all rooms on your level, including toilets and pantry. (Note: If rooms are locked, knocked thrice on the door to alert the occupants);
 - When all occupants have evacuated, put up the “NO ENTRY” sticker on each of the exits to ensure no one will return. Doors to remain unlock for escape and entry by fire fighters.
 - Leave for the FAA.
 - Report status to ECTs.
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- (a) Acquaint any new employee with the Emergency Response Plan including his/her specific role (if any) during an emergency.
 - (b) Be familiar with the Emergency Response Plan and means of escape of the building.
 - (c) Be familiar with the operation of the fire alarm system and use of first aid, firefighting equipment.

OTHER APPOINTMENT HOLDERS

UNIVERSITY FIRE SAFETY MANAGER (UFSM)

The University Fire Safety Manager is Mr. Nizham Keman (9667 0222)

THE KEY RESPONSIBILITIES OF FSM / ASSISTANT FSM INCLUDES:

- (a) Ensure at all times that fire safety requirements contained in the Emergency Response Plan are complied with.
- (b) Supervise the maintenance of all fire safety works in the premises.
- (c) Ensure at all times that the occupant load of any part of any building does not exceed the capacity prescribed under the Fire Code.
- (d) Conduct daily checks within the premises and remove or cause to be removed any fire hazard that is found within the premises.
- (e) Prepare an Emergency Response Plan for the premises and conduct fire drills for the occupants annually as may be stipulated FIRE SAFETY (FIRE SAFETY MANAGERS) REGULATIONS.
- (f) Ensure that all occupants are familiar with the means of escape located within the premises.
- (g) Prepare fire safety guidebooks for the occupants of the premises.
- (h) Train the occupants in the premises in first aid, firefighting and evacuation in the event of fire.
- (i) Co-ordinate and supervise the occupants within the premises in fire-fighting and in evacuation in the event of fire or other emergencies.
- (j) Supervise the operation of the Fire Command Centre in the event of fire or other emergencies.
- (k) Conduct at least 2 Table-Top Exercises within the premises each year and to evaluate, together with the Fire Safety Committee, the effectiveness of the Emergency Response Plan for those premises.
- (l) Notify the SCDF immediately upon the occurrence of any fire / non-fire emergency and fire related mass casualty incident in the premises.

OCCUPATIONAL FIRST AIDERS (OFA)

No.	Name	Office/ Lab	Contact No.
1.	Kuah Chen Yee	SBS-05n-07	6316 2837
2.	Nadiah Khairunnisa Bte Ismail	SBS-05n-07	6316 2837
3.	Siti Nadirah Bte Ismail	SBS-05n-07	6316 2837
4.	Teo Bo Siang	SBS-01s-68	6592 1728
5.	Too Qing Sheng	SBS- 01s-68	6592 1728

THE KEY RESPONSIBILITIES OF OFA

- a. On instructions to evacuate, proceed to AA with a first aid box.
- b. Standby at AA to provide first aid treatment to any injured person.

SPILL MANAGEMENT TEAM

No.	Name	Level	Contact
1	Manimaran s/o Joesph	B1n	6316 2874
2	Xia Yinyan	B1n	6316 2874
3	Ye Hong (Dr.)	B1n / 01n	6316 2920
4	Yong Sing Kwok	01n	6316 2814
5	Geraldine Loke	01n	6316 2878
6	Chelliah Rosi	01n	6514 1006
7	Abdul Rashid Bin Mohammad Muzaki (Dr.)	02s	6592 1545
8	Poh Cheng Wei (Dr.)	02s	-
9	Ryna Shireen Sheriff	03n	-
10	Ragunathan Priya (Dr.)	03S	6316 2926
11	Annie Gao (Dr.)	04n	6316 2898
12	Chen Ming Wei (Dr.)	04s	6513 7461
13	Lew Yi Liang	Teaching Labs	6592 1795
14	Nai Huey Shan	Teaching Labs	6316 2803

THE KEY RESPONSIBILITIES OF SPILL MANAGEMENT TEAM

- (a) Proceed to location of spill with spill kit upon notification
- (b) Assess the type and extent of spill
- (c) Notify HS Permit Holder, Assoc Prof. Jaume Torres (6316 2857) and SBS ERT
- (d) Respond to the spill by following “Spill Management in **NTU Safety Manual for Chemical Work**” available at: <https://bit.ly/Safety-Chemical-Work>
- (e) Clean up the area and decontaminate own self
- (f) Arrange disposal of contaminated items through Toxic Industrial Waste Collectors
 - ECO Special Waste Management Pte Ltd (6863 7800)
 - Asia Medical Enviro Services Pte Ltd (*Previously named Sembcorp Environment Pte Ltd*) (68612874)
 - Modern Asia Environmental Holdings (*Previously named Technochem Environmental Complex Pte Ltd*) (6862 3130)
- (g) Report incident to Office of Health, Safety and Emergency, NTU via iRiS (Incident Reporting and Investigation System)

Detailed Grouping and Tasks

S/NO.	GROUPING	GENERAL TASKS	PHASE	DETAILED TASKS	REMARKS
1	Site Main Controller	Overall, In-charge of emergency response operations & liaise with senior officials of government agencies.	I	- Verify with Site Incident Controller about the emergency. - Upon confirmation of emergency that requires evacuation, proceed to the Assembly Area. - Notify NTU-SBS Chair / NTU- SBS Safety Committee with initial report of emergency situation.	This post is filled by Dr Liew Chong Wai.
			II	- Notify NTU-SBS Chair / NTU-SBS Safety Committee with list of missing person / casualties (if any). - Notify HR to attempt to contact the missing person by calling them or their next-of-kin. - Regular updates to NTU-SBS Chair / NTU-SBS Safety Committee about the current situation.	
			III	- Assist SCDF / SPF by providing necessary information to facilitate the mitigation, containment, security cordoning, evacuation and rescue activities. - Regular updates to NTU-SBS Chair / NTU-SBS Safety Committee about the current situation.	

				- Authorize release of information to media and authorities with instructions from NTU-SBS Chair / NTU- SBS Safety Committee.	
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Annex G

2	Site Incident Controller	Direct in-house emergency operations and assist in coordination work with all internal and external parties towards controlling the emergency situation.	I	- Proceed to the Fire Command Centre (FCC) and coordinate investigation of the emergency. - Upon confirmation of emergency that requires evacuation, activates the evacuation of the building. - Activate SCDF. - Notify Site Main Controller with initial report of emergency situation.	This post is filled by Mr. Yong Sing Kwok.
			II	- Assist in distribution of floor register to staff. - Assist in collection of floor register from staff. - Confirm with FSM of any missing person / Casualties. - Notify Site Main Controller with list of missing person / casualties (if any).	
			III	- Assist SCDF / SPF by providing necessary information to facilitate the mitigation, containment, security cordoning, evacuation and rescue activities. - Follow the instructions given by the SCDF Ground Commander.	
3	Company Emergency Response Team (CERT)	Assist FSM in verifying the emergency, conduct firefighting without taking personal risk	I	- Conduct initial investigation by verifying the location of the fire alarm activation at the affected floor and report back to the FCC via walkie-talkie.	Consist of security officers, building technicians and
			II	- Assist in firefighting without taking personal risk. - Report all situations to the FCC.	

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		and updating FSM on situation.	III	- Report to FCC about the actions carried out prior to the arrival of SCDF / SPF.	NTU-SBS employees.
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4	Fire Safety Manager	Overall, In-charge of Evacuation procedure & liaise with SMC.	I	Carry out initial Evacuation Procedure.	Consists of all security personnel assigned by Chief Security Officer to assist SBS building in emergency evacuation.
			II	Assess the situation and declare the appropriate alert level to all ERT and ECT.	
			III	Liaise with SIC in clean-up operations.	
5	Security Personnel	Direct traffic away from the main road and direct the evacuees towards the Assembly Area.	I	Act as traffic marshals to direct traffic away from the route that evacuees would take to the Assembly Area.	Consists of all security personnel assigned by Chief Security Officer to assist SBS building in emergency evacuation.
			II	Assist in guiding the evacuees to the Assembly Area.	
			III	Assist in crowd control at Assembly Area.	
6	Fire Wardens	Assist in investigation of alarm, clearing the floor during evacuation and head count at the Assembly Area.	I	- Assist in investigation on alarm activation and report to FCC. - Assist in guiding evacuees to Assembly Area.	Consist of NTU-SBS employees.
			II	- Assist in distribution of floor registers to staff - Assist in collection of floor registers from staff - Assist in notifying Asst FSM of any missing person / casualties.	
			III	Assist in crowd control at Assembly Area.	

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7	First Aiders	To provide first aid to any casualty before paramedics arrive.	I	Proceed to assembly area.	Consist of NTU-SBS employees.
			II	Attend to the injured, if any.	
			III	Make necessary arrangement for the injured.	
8	Persons With Disabilities (PWDs)'s Custodian	Assigned to assist PWDs evacuation during an emergency.	I	Both PWD and PWD Custodian should try to contact each other, get ready for evacuation; (PWD to hold on to his/her mobile phone.	Consist of NTU-SBS employees. This post is filled by Ms Hua Wen Hui.
			II	Move (if possible) to the PWD Holding Point or Assembly Area or Locations away from the building.	
			III	Contact 6790 5200 for assistance.	

SBS CERT Structure

