

## Safe Method of Use for Class 6.1, Acute Toxicity

### A. Classification (these substances are **Very High Hazard**)

An Acute Hazard is one to which a single exposure may cause harm, but which is unlikely to lead to permanent damage. However, with high acute hazards, DEATH may occur within seconds/minutes. In all cases, rescuers and treatment providers **SHALL** ensure their own safety before providing aid. Particular care is required where vapour, mist or gaseous hazards may be present. (For example, carbon monoxide)

Specific Safe Methods of Use **shall** be developed for chemical species having toxicity less than: i.e. Any toxin of Classes 6.1A, 6.1B or 6.1C

Oral toxicity < 300 mg/kg, bw LD<sub>50</sub>;

Dermal <1000 mg/kg bw LD<sub>50</sub>;

Inhalation as Gas <2,500 LC<sub>50</sub> ppm in air;

Inhalation as vapour < 10 LC<sub>50</sub> mg/L in air;

Inhalation as Dusts/Mists < 1.0 LC<sub>50</sub> mg/L in air

You **MUST** consult Safety data Sheets (SDS) for details specific to the substance in use.

### B. Incompatibilities

- HSNO Class 6 substances **shall not** be stored with any HSNO Class 1, Class 2, Class 3, Class 5 or Class 8 substances

### C. Storage

- Any secondary containers for HSNO Class 6.1A to 6.1C substances **shall** be marked with Class 6.1 "Toxic" icon.



- Areas of containment (including under-bench cupboards) shall be marked with toxic substances icon

### D. Storage - Limits on Storage Time

- Containers of **shall** be checked annually to ensure they are not leaking and are in good condition and labels are intact and legible.

### F. Use of Class 6 substances

- All persons in the laboratory are to be warned that a toxic substance is being used.

- All persons have the appropriate training (First Aid) before any work commences.
- That appropriate back up procedures are in place and tested before the work begins.
- That all appropriate antidotes are present on site in sufficient quantity.
- Procedures where vapour, mist or gaseous hazards may be present **shall** be performed in an approved fumehood

#### G. Personal Protective Equipment (PPE) for Handling HSNO 6.1 substances

- Care **shall** be taken to ensure gloves of appropriate material are used when handling toxic substances.
- The primary barrier **shall** be the use of a tested and certified fume hood to extract toxic vapour, mist or gas away from laboratory workers

#### H. Toxicity of Class 6 substances

Compounds dissolved in commonly used solvents shall often be absorbed by the skin much more freely, penetrating the body's first line of defence. Consult SDS sheets for details specific to the compound in use.

#### I. Disposal

- HSNO Class 6.1 substances **shall only** be disposed of via the chemical waste room (TTR007). Refer to information on the SBS resources page for information on appropriate containers and labelling for waste solvents. If in doubt, contact your lab manager.

## J. Spills

- **Minor spills** – *shall* be cleaned up immediately using the spill kits present in the laboratory
  - Use correct gloves
  - Use absorbent material in spill kits to wipe up solvent – wiping from outside of spill toward centre
  - Place used absorbent material in impermeable/airtight container made of material suitable to contain the hazardous waste.
  - Inform Laboratory Manager and arrange for immediate disposal.
  - If a staff member fill out an incident/accident report. If a student, ask your supervisor fill out the online incident/accident report on your behalf.
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- **Major spills** –
  - Extinguish all sources of ignition and clear area immediately.
  - If required provide first-aid to any affected individuals.
  - Close all doors to laboratory and prevent re-entry until 'all-clear' is given
  - Call fire brigade and campus care immediately.
  - Inform Laboratory Manager and/or arrange for SDS to be made available to emergency services.
  - Prepare to evacuate building

## K. Poisonings

- Largely dependent on the species of chemical in use and type of exposure, refer to specific MSDS
- For most poisoning, use copious quantities of tepid water for surface exposures; however some substances require special treatment.
- In all cases seek medical help.

## L. Emergency Contacts

In an emergency

- Call Campus Security on 8888 (0800 842 8888) or (04) 463 9999 giving location and substance details
- For emergency services call: 111

New Zealand Poisons Centre: 0800 764 766