

### 1. Identification of Substance & Company

#### Product

|                      |                                                                 |
|----------------------|-----------------------------------------------------------------|
| Product name         | JM TPO Edge Sealant                                             |
| Product code         | NA                                                              |
| HSNO approval        | HSR002662                                                       |
| Approval description | Surface Coatings and Colourants (Flammable) Group Standard 2006 |
| UN number            | 1133                                                            |
| Proper Shipping Name | ADHESIVES                                                       |
| DG class             | 3                                                               |
| Packaging group      | II                                                              |
| Hazchem code         | 3YE                                                             |
| Uses                 | Sealant                                                         |

#### Company Details

|           |                                                                                                      |
|-----------|------------------------------------------------------------------------------------------------------|
| Company   | <b>Allco Waterproofing Solutions</b>                                                                 |
| Address   | 5 Te Kia Place PO Box 101-903<br>Albany North Shore City<br>Auckland 0745<br>New Zealand New Zealand |
| Telephone | +64 9 448 1185                                                                                       |
| Website   | www.allco.co.nz                                                                                      |

**Emergency Telephone Number: 021 441 329**

### 2. Hazard Identification

#### Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2006), and is classified as follows:

#### Classes Hazard Statements

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| 3.1B              | H225 - Highly flammable liquid and vapour.                                |
| 6.1D (oral)       | H302 - Harmful if swallowed.                                              |
| 6.1E (aspiration) | H304 - May be fatal if swallowed and enters airways.                      |
| 6.3A              | H315 - Causes skin irritation.                                            |
| 6.4A              | H319 - Causes serious eye irritation.                                     |
| 6.8B              | H361 - Suspected of damaging fertility or the unborn child.               |
| 6.9B              | H371 - May cause damage to organs through prolonged or repeated exposure. |
| 6.9B (narcotic)   | H336 - May cause drowsiness or dizziness.                                 |
| 9.1D              | H402 - Harmful to aquatic life.                                           |
| 9.3C              | H433 - Harmful to terrestrial vertebrates.                                |

#### SYMBOLS

**DANGER**



#### Other Classifications

There are no other classifications that are known to apply.

### Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection\*.  
  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.  
P331 - Do NOT induce vomiting.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 - If skin irritation occurs: Get medical advice/ attention.  
P362 - Take off contaminated clothing and wash before re-use.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P308+P313 - IF exposed or concerned: Get medical advice/ attention.  
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up

### 3. Composition / Information on Ingredients

| Component | CAS/ Identification | Conc (%) |
|-----------|---------------------|----------|
| Toluene   | 108-88-3            | 50-70%   |
| Xylene    | 1330-20-7           | 30-50%   |

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

**Recommended first aid facilities** Ready access to running water is required. Accessible eyewash is required.

#### Exposure

**Swallowed** IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.

**Inhaled** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

|                                             |                                                                                                                                                                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire and explosion hazards:</b>          | Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity.                                                |
| <b>Suitable extinguishing substances:</b>   | Carbon dioxide, extinguishing powder, foam.                                                                                                                                                                             |
| <b>Unsuitable extinguishing substances:</b> | Unknown.                                                                                                                                                                                                                |
| <b>Products of combustion:</b>              | Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. |
| <b>Protective equipment:</b>                | Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.                                                                                                               |
| <b>Hazchem code:</b>                        | 3YE                                                                                                                                                                                                                     |

### 6. Accidental Release Measures

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Containment</b>          | If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to stormwater.                                                                                                                                                                                                                                                                                                                         |
| <b>Emergency procedures</b> | In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately). |
| <b>Clean-up method</b>      | Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.                                                                                                                                                                                      |
| <b>Disposal</b>             | Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.                                                                                                                                                                                                                                                                               |
| <b>Precautions</b>          | Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.                                                                                                                                                                                                                                                                                                                                                                                |

### 7. Storage & Handling

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location test certificates must be available if storing >100L (containers >5L), 250L (containers ≤5L), 50L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents. |
| <b>Handling</b> | Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.                                                                                                                                                                                                                                                                                                                 |

### 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

| NZ Workplace Exposure Std (2016) | Ingredient | WES-TWA                             | WES-STEL         |
|----------------------------------|------------|-------------------------------------|------------------|
|                                  | Toluene    | 50ppm, 188 mg/m <sup>3</sup> (skin) | data unavailable |
|                                  | xylene     | 50ppm, 217mg/m <sup>3</sup>         | data unavailable |

\* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

### Personal Protective Equipment

#### Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.

#### Skin



Protective gloves are recommended. Nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use.

#### Respiratory



A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge. . If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

### WES Additional Information

Not applicable

## 9. Physical & Chemical Properties

|                                |                                 |
|--------------------------------|---------------------------------|
| Appearance                     | viscous colourless white liquid |
| Odour                          | hydrocarbon odour               |
| pH                             | no data                         |
| Vapour pressure                | no data                         |
| Viscosity                      | no data                         |
| Boiling point                  | 137°C                           |
| Volatile materials             | no data                         |
| Freezing / melting point       | no data                         |
| Solubility                     | insoluble in water              |
| Specific gravity / density     | 0.956 g/cm <sup>3</sup>         |
| Flash point                    | 26.7°C                          |
| Danger of explosion            | no data                         |
| Auto-ignition temperature      | no data                         |
| Upper & lower flammable limits | LEL: 0.6%, UEL: 7.0%            |
| Corrosiveness                  | non corrosive                   |

## 10. Stability & Reactivity

|                                    |                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Stability                          | Stable                                                                                                                                  |
| Conditions to be avoided           | Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination. |
| Incompatible groups                | Oxidisers, strong acids, bases.                                                                                                         |
| Substance Specific Incompatibility | none known                                                                                                                              |
| Hazardous decomposition products   | Oxides of carbon                                                                                                                        |
| Hazardous reactions                | none known                                                                                                                              |

## 11. Toxicological Information

### Summary

IF SWALLOWED: can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death.

IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause skin irritation. Repeated or prolonged contact may cause drying out of the skin resulting in non-allergic dermatitis. This product can be absorbed through the skin.

IF INHALED: vapours may be irritating to the respiratory system, Vapours may cause dizziness and drowsiness. At high concentration Xylene vapours may cause severe breathing difficulties which may be delayed in onset. Xylene may also cause loss of appetite, nausea, vomiting and abdominal pain.

CHRONIC TOXICITY: Xylene and toluene vapours may cause reversible damage to kidneys and liver. Prolonged exposure can cause nerve damage (CNS). Toluene may also affect hearing.

### Supporting Data

|                |                                           |                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute</b>   | <b>Oral</b>                               | Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is between 300 and 2000 mg/kg. Data considered includes: xylene 1590 mg/kg (mouse), Toluene 636 mg/kg (rat).                                                                       |
|                | <b>Dermal</b>                             | Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (dermal, rat) for the mixture is >5000 mg/kg. Data considered includes: xylene >1700mg/kg.                                                                                                                     |
|                | <b>Inhaled</b>                            | Using LC <sub>50</sub> 's for ingredients, the calculated LC <sub>50</sub> (inhalation, rat) for the mixture is between 10 and 20mg/L. Data considered includes: xylene 27.6 mg/L (rat, vapour), Toluene 12.5 - 28.8 mg/l (vapour, rat).                                                  |
|                | <b>Eye</b>                                | The mixture is considered to be an eye irritant, because some of the ingredients (xylene and toluene) present are considered eye irritants in more concentrated form.                                                                                                                     |
|                | <b>Skin</b>                               | The mixture is considered to be a skin irritant, because some of the ingredients ((xylene, toluene) present are considered skin irritants in more concentrated form.                                                                                                                      |
| <b>Chronic</b> | <b>Sensitisation</b>                      | No ingredient present at concentrations > 0.1% is considered a sensitizer.                                                                                                                                                                                                                |
|                | <b>Mutagenicity</b>                       | No ingredient present at concentrations > 0.1% is considered a mutagen.                                                                                                                                                                                                                   |
|                | <b>Carcinogenicity</b>                    | No ingredient present at concentrations >0.1% is considered a carcinogen.                                                                                                                                                                                                                 |
|                | <b>Reproductive / Developmental</b>       | The mixture is considered to be a suspected reproductive or developmental toxicant. Xylene, has been shown to cause foetal toxicity in animals at doses which are maternally toxic. Not expected to impair fertility. Toluene is classed 6.8B by EPA.                                     |
|                | <b>Systemic</b>                           | The mixture is considered to be a suspected target organ toxicant. Xylene: affected organs: hepatic (liver), Neurological (nervous system), renal (urinary system or kidneys). Toluene is classed 6.9B, it may affect the CNS. Toluene may also be ototoxic (may cause damage to hearing) |
|                | <b>Aggravation of existing conditions</b> | None known.                                                                                                                                                                                                                                                                               |

## 12. Ecological Data

### Summary

This mixture is considered to be harmful towards aquatic organisms and harmful towards terrestrial vertebrates.

### Supporting Data

|                                    |                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aquatic</b>                     | Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is between 1 and 100 mg/L. Data considered includes: Toluene 5.8 mg/l (96hr, Oncorhynchus mykiss), 11.5 mg/l (48hr, Daphnia magna), 12.5mg/L (72hr, Algal), xylene 8.5mg/l (48hr, Palaemonetes pugio (Crustacea)), 3.3 mg/l (96hr, Oncorhynchus mykiss), 10mg/l (72hr, Skeletonema costatum). |
| <b>Bioaccumulation</b>             | Not bioaccumulative                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Degradability</b>               | Readily degradable.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Soil</b>                        | No evidence of soil toxicity.                                                                                                                                                                                                                                                                                                                                                            |
| <b>Terrestrial vertebrate</b>      | The mixture is considered harmful to terrestrial vertebrates. See acute toxicity.                                                                                                                                                                                                                                                                                                        |
| <b>Terrestrial invertebrate</b>    | No evidence of toxicity towards terrestrial invertebrates.                                                                                                                                                                                                                                                                                                                               |
| <b>Biocidal</b>                    | no data                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Environmental effect levels</b> | No EELs are available for this mixture or ingredients                                                                                                                                                                                                                                                                                                                                    |

### 13. Disposal Considerations

|                               |                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restrictions</b>           | There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.                                                                                                      |
| <b>Disposal method</b>        | Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment. |
| <b>Contaminated packaging</b> | Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.                                                                                                                                                 |

### 14. Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

|                     |                  |                              |           |
|---------------------|------------------|------------------------------|-----------|
| <b>UN number:</b>   | 1133             | <b>Proper shipping name:</b> | ADHESIVES |
| <b>Class(es)</b>    | 3                | <b>Packing group:</b>        | II        |
| <b>Precautions:</b> | Flammable liquid | <b>Hazchem code:</b>         | 3YE       |

### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2006.

#### Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

|                                 |                                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDS                             | To be available within 10 minutes in workplaces storing > any quantity.                                                                                            |
| Labelling                       | No removal of labels and/or decanting of product into other containers can occur.                                                                                  |
| Emergency plan                  | Required if > 1000L is stored.                                                                                                                                     |
| Approved handler                | Required if > >250L (for containers >5L), >500L (for containers <5L) is handled or stored.                                                                         |
| Tracking                        | Not required.                                                                                                                                                      |
| Bunding & secondary containment | Required if > 1000L is stored.                                                                                                                                     |
| Signage                         | Required if > 250L is stored in any one location.                                                                                                                  |
| Location test certificate       | Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (in use) is stored in any one location.                                                            |
| Flammable zone                  | Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use), stored in any one location is stored in any one location. |
| Fire extinguisher               | If > 250L present.                                                                                                                                                 |

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

### 16. Other Information

#### Abbreviations

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Approval Code</b>   | Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2006 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> |
| <b>CAS Number</b>      | Unique Chemical Abstracts Service Registry Number                                                                                                       |
| <b>Ceiling</b>         | Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.              |
| <b>Controls Matrix</b> | List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).                                                                      |
| <b>EC<sub>50</sub></b> | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)                             |
| <b>EPA</b>             | Environmental Protection Authority (New Zealand)                                                                                                        |
| <b>HAZCHEM Code</b>    | Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters                                   |
| <b>HSNO</b>            | Hazardous Substances and New Organisms (Act and Regulations)                                                                                            |
| <b>IARC</b>            | International Agency for Research on Cancer                                                                                                             |
| <b>LEL</b>             | Lower Explosive Limit                                                                                                                                   |
| <b>LD<sub>50</sub></b> | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).                                                                       |



|                        |                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LC<sub>50</sub></b> | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)                                                                                                                                                                                                                          |
| <b>MSDS (SDS)</b>      | Material Safety Data Sheet (or Safety Data Sheet)                                                                                                                                                                                                                                                                                  |
| <b>PES</b>             | Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).                                                                                                                                       |
| <b>STEL</b>            | Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded                                                                                                                                        |
| <b>TWA</b>             | Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)                                                                                                                                                                                                                                 |
| <b>UEL</b>             | Upper Explosive Limit                                                                                                                                                                                                                                                                                                              |
| <b>UN Number</b>       | United Nations Number                                                                                                                                                                                                                                                                                                              |
| <b>WES</b>             | Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone. |

### References

|                              |                                                                                                                                                                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data</b>                  | Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).                                                                                                                                           |
| <b>EPA Transfer Gazettes</b> | Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)                                                                                                                                                    |
| <b>WES 2013</b>              | The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .                                                           |
| <b>WES 2002</b>              | Workplace Exposure Standards published by the Occupational Safety and Health Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES. |
| <b>Other References:</b>     | Suppliers SDS                                                                                                                                                                                                                                  |

### Review

|              |                          |
|--------------|--------------------------|
| <b>Date</b>  | <b>Reason for review</b> |
| October 2017 | Not applicable – new SDS |
| June 2025    | Update version           |

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. It constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: +64 9 940 30 80.

