

SAFETY DATA SHEET



Date of issue : 1 August 2018

Version : 6

Section 1. Identification

Product code : SUA460/CARTON
Product name : SUA460 1K EPOXY RUB THRU PRIMER G6 (AEROSOL)
Product type : Aerosol.

Recommended use and restrictions

**Use of the substance/
mixture** : Coating.
Uses advised against : Not applicable.

Supplier's details : PPG INDUSTRIES NEW ZEALAND LTD
5 MONAHAN ROAD, MT WELLINGTON,
AUCKLAND
www.ppgnz.co.nz

Telephone Numbers:
09 573 1620, 0800 659378
021 940 920 (24 Hours)

**Emergency telephone
number (with hours of
operation)** : New Zealand 0800 000 096 / Australia 1800 883 254
For international shipping emergencies: 1-412-391-1618

**e-mail address of person
responsible for this SDS** : ehsnz@ppg.com

Section 2. Hazards identification

HSNO Classification : 2.1.2 - FLAMMABLE AEROSOLS - Category A
3.1 - FLAMMABLE LIQUIDS - Category A
6.1 - ACUTE TOXICITY (oral) - Category E
6.3 - SKIN IRRITATION - Category A
6.4 - EYE IRRITATION - Category A (Irritant)
6.5 - SENSITIZATION - Category B (Skin)
6.7 - CARCINOGENICITY - Category B
6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY (Fertility) - Category B
6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY (Unborn child) -
Category B
6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE)
- Category B
9.1 - AQUATIC ECOTOXICITY - Category C

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.


This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Danger

Section 2. Hazards identification

Hazard statements


- :  Extremely flammable aerosol.
- Extremely flammable liquid and vapour.
- May be harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.
- May cause damage to organs.
- Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or any white-hot material. Avoid release to the environment. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

- :  **IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Take off contaminated clothing and wash before reuse. Rinse skin with water [or shower]. Wash with plenty of soap and water. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **IF exposed or concerned:** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Get medical advice/attention.

Storage

- : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep cool.

Disposal

- : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Symbol



Other hazards which do not result in classification

- : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture

- : Mixture

CAS number/other identifiers

Product code

- : SUA460/CARTON

Section 3. Composition/information on ingredients

| Hazardous ingredients | % | CAS number |
|-----------------------------|----------|------------|
| Dimethyl ether | 30 - 60 | 115-10-6 |
| ethanol | 10 - <30 | 64-17-5 |
| butanone | 1 - <10 | 78-93-3 |
| xylene | 1 - <10 | 1330-20-7 |
| toluene | 1 - <10 | 108-88-3 |
| 2-methylpropan-1-ol | 1 - <10 | 78-83-1 |
| Isopropyl alcohol | 1 - <10 | 67-63-0 |
| butan-1-ol | 1 - <10 | 71-36-3 |
| Epoxy Resin | 1 - <10 | 25036-25-3 |
| trizinc bis(orthophosphate) | 1 - <10 | 7779-90-0 |
| ethylbenzene | 1 - <10 | 100-41-4 |
| 1-methoxy-2-propanol | 1 - <10 | 107-98-2 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment or have an OEL and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion** : May be harmful if swallowed.

Over-exposure signs/symptoms

- Eyes** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced foetal weight
increase in foetal deaths
skeletal malformations

Section 4. First aid measures

- Skin** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Specific treatments** : Not available.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
- Not suitable** : None known.
- Specific hazards arising from the chemical** : Extremely flammable liquid and vapour. Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides
- Hazchem code** : None
- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

| Ingredient name | Exposure limits |
|----------------------|--|
| Dimethyl ether | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-STEL: 958 mg/m³ 15 minutes. WES-STEL: 500 ppm 15 minutes. WES-TWA: 766 mg/m³ 8 hours. WES-TWA: 400 ppm 8 hours.</p> |
| ethanol | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-TWA: 1880 mg/m³ 8 hours. WES-TWA: 1000 ppm 8 hours.</p> |
| butanone | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-STEL: 890 mg/m³ 15 minutes. WES-STEL: 300 ppm 15 minutes. WES-TWA: 445 mg/m³ 8 hours. WES-TWA: 150 ppm 8 hours.</p> |
| xylene | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-TWA: 217 mg/m³ 8 hours. WES-TWA: 50 ppm 8 hours.</p> |
| toluene | <p>NZ HSWA 2015 (New Zealand, 6/2016). Absorbed through skin. WES-TWA: 188 mg/m³ 8 hours. WES-TWA: 50 ppm 8 hours.</p> |
| 2-methylpropan-1-ol | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-TWA: 152 mg/m³ 8 hours. WES-TWA: 50 ppm 8 hours.</p> |
| Isopropyl alcohol | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-STEL: 1230 mg/m³ 15 minutes. WES-STEL: 500 ppm 15 minutes. WES-TWA: 983 mg/m³ 8 hours. WES-TWA: 400 ppm 8 hours.</p> |
| butan-1-ol | <p>NZ HSWA 2015 (New Zealand, 6/2016). Absorbed through skin. WES-Ceiling: 150 mg/m³ WES-Ceiling: 50 ppm</p> |
| ethylbenzene | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-STEL: 543 mg/m³ 15 minutes. WES-STEL: 125 ppm 15 minutes. WES-TWA: 434 mg/m³ 8 hours. WES-TWA: 100 ppm 8 hours.</p> |
| 1-methoxy-2-propanol | <p>NZ HSWA 2015 (New Zealand, 6/2016). WES-STEL: 553 mg/m³ 15 minutes. WES-STEL: 150 ppm 15 minutes. WES-TWA: 369 mg/m³ 8 hours. WES-TWA: 100 ppm 8 hours.</p> |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Section 8. Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves : butyl rubber

Eye protection :  Chemical splash goggles.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Grey.

Odour : Hydrocarbon.

Odour threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : <35°C (<95°F)

Flash point : Closed cup: -42°C (-43.6°F)

Section 9. Physical and chemical properties

| | |
|---|--|
| Material supports combustion. | : Yes. |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosive (flammable) limits | : Not available. |
| Vapour pressure | : Not available. |
| Relative density | : 0.81 |
| Solubility | : Insoluble in the following materials: cold water. |
| Partition coefficient: n-octanol/water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): <0.14 cm ² /s (<14 cSt) |
| <u>Aerosol product</u> | |
| Type of aerosol | : Spray |
| Heat of combustion | : 21.03 kJ/g |

Section 10. Stability and reactivity

| | |
|---|---|
| Stability | : The product may not be stable under certain conditions of storage or use. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials strong acids strong alkalis |
| Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides phosphorus oxides halogenated compounds metal oxide/oxides |
| Hazardous polymerisation | : Under normal conditions of storage and use, hazardous polymerisation will not occur. |

Section 11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | : No known significant effects or critical hazards. |
| Ingestion | : May be harmful if swallowed. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-------------------|---|
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations |
|-------------------|---|

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced foetal weight
increase in foetal deaths
skeletal malformations

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|------------------------|---------|--------------------------|----------|
| dimethyl ether | LC50 Inhalation Gas. | Rat | 164000 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | 309 g/m ³ | 4 hours |
| ethanol | LC50 Inhalation Vapour | Rat | 124700 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 7 g/kg | - |
| butanone | LD50 Dermal | Rabbit | 6480 mg/kg | - |
| | LD50 Oral | Rat | 2737 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | >1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| toluene | LC50 Inhalation Vapour | Rat | 49 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| | LD50 Oral | Rat | 5580 mg/kg | - |
| 2-methylpropan-1-ol | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 2460 mg/kg | - |
| Isopropyl alcohol | LC50 Inhalation Vapour | Rat | 72600 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| | LD50 Oral | Rat | 4.396 g/kg | - |
| butan-1-ol | LC50 Inhalation Vapour | Rat | 24000 mg/m ³ | 4 hours |
| | LC50 Inhalation Vapour | Rat | 8000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| 1-methoxy-2-propanol | LD50 Dermal | Rabbit | 13 g/kg | - |
| | LD50 Oral | Rat | 5.2 g/kg | - |

Conclusion/Summary : There are no data available on the mixture itself.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

Section 11. Toxicological information

Skin : There are no data available on the mixture itself.

Eyes : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Sensitisation

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Skin contact : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Chronic toxicity

Not available.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity

| Name | Category | Route of exposure | Target organs |
|--------------|------------|-------------------|----------------|
| butanone | Category B | Inhalation | Not determined |
| xylene | Category B | Oral | Not determined |
| | | Skin | Not determined |
| | | Inhalation | Not determined |
| toluene | Category B | Inhalation | Not determined |
| Epoxy Resin | Category B | Skin | Not determined |
| ethylbenzene | Category B | Inhalation | Not determined |

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

| Route | ATE value |
|----------------------|---------------|
| Oral | 3184.8 mg/kg |
| Dermal | 12463.4 mg/kg |
| Inhalation (vapours) | 231.3 mg/l |

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Epoxy Resin. May produce an allergic reaction.

Section 12. Ecological information

Ecotoxicity : This material is harmful to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|-----------------------------|--|--|----------|
| ethanol | Acute EC50 7640 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Isopropyl alcohol | Acute EC50 10100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| trizinc bis(orthophosphate) | Acute LC50 0.112 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.026 mg/l | Fish | 30 days |
| ethylbenzene | Acute LC50 150 to 200 mg/l Fresh water | Fish - Lepomis macrochirus - Young of the year | 96 hours |
| 1-methoxy-2-propanol | Acute LC50 23300 mg/l | Daphnia | 48 hours |
| | Acute LC50 >4500 mg/l Fresh water | Fish | 96 hours |

Persistence/degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| ethanol | - | - | Readily |
| xylene | - | - | Readily |
| toluene | - | - | Readily |
| ethylbenzene | - | - | Readily |

Bioaccumulative potential

Section 12. Ecological information

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|-------------|-----------|
| Dimethyl ether | 0.1 | - | low |
| ethanol | -0.31 | - | low |
| butanone | 0.29 | - | low |
| xylene | 3.16 | 7.4 to 18.5 | low |
| toluene | 2.73 | 8.32 | low |
| 2-methylpropan-1-ol | 0.76 | - | low |
| Isopropyl alcohol | 0.05 | - | low |
| butan-1-ol | 0.88 | - | low |
| ethylbenzene | 3.15 | 79.43 | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Do not allow to enter drains or watercourses.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Not suitable: : Do not allow to enter drains or watercourses.

The classification of the product may meet the criteria for a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

| | NZ | ADG | IMDG | IATA |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| UN number | 1950 | 1950 | 1950 | 1950 |
| UN proper shipping name | AEROSOLS | AEROSOLS | AEROSOLS | AEROSOLS |
| Transport hazard class(es) | 2.1 | 2.1 | 2.1 | 2.1 |
| Packing group | - | - | - | - |
| Environmental hazards | No. | No. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

14. Transport information

Additional information

| | |
|---------------------|--------------------|
| NZ | : None identified. |
| ADG | : None identified. |
| Hazchem code | : None |
| IMDG | : None identified. |
| IATA | : None identified. |

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

New Zealand Inventory of Chemicals (NZIoC) : All components are listed or exempted.

HSNO Approval Number : HSR002517 Aerosols (Flammable, Toxic [6.7])

Emergency Management Regulations : Level 1: Not applicable.

Level 2: MSDS required when any amount is present in a workplace.

Level 3: Emergency Response Plans and Secondary Containment required when 1000L is stored.

Ecotoxic Signage required when 1000L is present in a workplace.

Approved Handler : Not applicable.

Section 16. Other information

Date of issue : 1 August 2018

 Indicates information that has changed from previously issued version.

Key to abbreviations : STEL = Short Term Exposure Limit
TWA = Time-Weighted Average
WES = Work Exposure Standard

References : Not available.

Organisation that prepared the MSDS : EHS

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