

SAFETY DATA SHEET

Pipeclad 5000 Epoxy Hardener (Part B)
Green

B62GV560

Section 1. Identification

Product name : Pipeclad 5000 Epoxy Hardener (Part B)
Green

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Supplier's details : VALSPAR PAINT (NZ) LIMITED
4-14 Patiki Road,
Avondale, Auckland, 1026, NZ

Manufacturer : The Sherwin-Williams Company
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number (with hours of operation) : 1-216-566-2917 (US) / +(64)98010034 (NZ)

e-mail address of person responsible for this SDS : sds@sherwin.com

Section 2. Hazards identification

HSNO Classification : ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION - Category 1B
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITISATION - Category 1
REPRODUCTIVE TOXICITY - Category 2
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This product is classified as DANGEROUS GOODS for transport, according to the New Zealand Standard NZS 5433: 2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Danger

Hazard statements : Harmful if swallowed or if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Very toxic to aquatic life with long lasting effects.

Precautionary statements

General : Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour. 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.

Version : 7

Date of issue/Date of revision : 04, March, 2024
SHW-A4-AP-GHS-NZ

Section 2. Hazards identification

Response : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Store locked up.

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 : Please refer to the SDS for additional information. Keep out of reach of children.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Product code : B62GV560

| Ingredient name | % (w/w) | CAS number |
|-----------------------------------|-----------|------------|
| 1,3-Benzenedimethanamine | ≥10 - ≤30 | 1477-55-0 |
| Paratertiarybutylphenol | ≥10 - ≤27 | 98-54-4 |
| Phenol, 4-Nonyl-, Branched | ≥10 - ≤30 | 84852-15-3 |
| Chromium Oxide | ≤5 | 1308-38-9 |
| 1,6-hexanediamine,2,2,4-trimethyl | ≤5 | 3236-53-1 |
| Phenol, 2-nonyl-, branched | <1 | 91672-41-2 |
| Alkyl Polyglycoside | ≤0.3 | 68609-96-1 |
| Phenol | <0.1 | 108-95-2 |

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 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

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Inhalation** : Harmful if inhaled.
- Ingestion** : Harmful if swallowed.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye damage.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Eyes** : Adverse symptoms may include the following:
pain
watering
redness

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

- Specific treatments** : No specific treatment.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

Section 4. First aid measures

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 | : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic 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 dioxide carbon monoxide nitrogen oxides metal oxide/oxides |
| Hazchem code | : 2X |
| 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. |
| 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

- | | |
|------------------------------------|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 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. Collect spillage. |

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. 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). 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

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. 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

Occupational exposure limits

| Ingredient name | Exposure limits |
|--------------------------|---|
| 1,3-Benzenedimethanamine | HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). Absorbed through skin. |
| Chromium Oxide | WES-Ceiling: 0.1 mg/m ³ HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [chromium (VI) compounds except barium, lead and poorly soluble zinc chromates as Cr] Skin sensitiser. Inhalation sensitiser. |
| Phenol | WES-TWA: 0.00002 mg/m ³ , (as Cr) 8 hours. WES-STEL: 0.0005 mg/m ³ , (as Cr) 15 minutes. HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). Absorbed through skin. |
| | WES-TWA: 1 ppm 8 hours. WES-STEL: 7.7 mg/m ³ 15 minutes. WES-STEL: 2 ppm 15 minutes. WES-TWA: 3.8 mg/m ³ 8 hours. |

Biological exposure indices

Section 8. Exposure controls/personal protection

| Ingredient name | Exposure indices |
|-----------------|--|
| Phenol | HSWA 2015 - HSW (GRWM) 2016. Biological exposure indices (BEI) (New Zealand, 4/2022) BEI: 100 mg/l, total phenol [in urine]. Sampling time: end of shift. |

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

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.

Body 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.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.
Colour : Green.
Odour : Not available.
Odour threshold : Not available.
pH : Not applicable.

Section 9. Physical and chemical properties

| | |
|--|--|
| Melting point/freezing point | : Not available. |
| Boiling point, initial boiling point, and boiling range | : Not available. |
| Flash point | : Closed cup: 94°C (201.2°F) [Pensky-Martens Closed Cup] |
| Evaporation rate | : Not available. |
| Flammability | : Not available. |
| Lower and upper explosion limit/flammability limit | : Not available. |
| Vapour pressure | : Not available. |
| Relative vapour density | : Not available. |
| Relative density | : 1.1 |
| Solubility(ies) | : |

| Media | Result |
|------------|-------------|
| cold water | Not soluble |

| | |
|---|---|
| Partition coefficient: n-octanol/water | : Not applicable. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) |
| Type of aerosol | : Not applicable. |
| Heat of combustion | : 14.226 kJ/g |
| Ignition distance | : Not applicable. |
| Enclosed space ignition - Time equivalent | : Not applicable. |
| Enclosed space ignition - Deflagration density | : Not applicable. |
| Flame height | : Not applicable. |
| Flame duration | : Not applicable. |

Section 10. Stability and reactivity

| | |
|---|--|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : No specific data. |
| Incompatible materials | : No specific data. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | : Harmful if inhaled. |
| Ingestion | : Harmful if swallowed. |
| Skin contact | : Causes severe burns. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye damage. |

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Eye contact** : Adverse symptoms may include the following:
pain
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 |
|----------------------------|------------------------|---------|-----------------------|----------|
| 1,3-Benzenedimethanamine | LC50 Inhalation Gas. | Rat | 700 ppm | 1 hours |
| | LD50 Dermal | Rabbit | 2 g/kg | - |
| | LD50 Oral | Rat | 930 mg/kg | - |
| Phenol, 4-Nonyl-, Branched | LD50 Oral | Rat | 1300 mg/kg | - |
| Phenol | LC50 Inhalation Vapour | Rat | 316 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 630 mg/kg | - |
| | LD50 Dermal | Rat | 669 mg/kg | - |
| | LD50 Oral | Rat | 317 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|----------------------------|------------------------|---------|-------|--------------------|-------------|
| 1,3-Benzenedimethanamine | Eyes - Severe irritant | Rabbit | - | 24 hours 50 ug | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 750 ug | - |
| Paratertiarybutylphenol | Eyes - Severe irritant | Rabbit | - | 10 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 50 ug | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 4 hours 500 mg | - |
| Phenol, 4-Nonyl-, Branched | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 500 mg | - |
| Phenol | Eyes - Mild irritant | Rabbit | - | 0.5 minutes 5 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 5 mg | - |
| | Skin - Mild irritant | Rabbit | - | 100 mg | - |
| | Skin - Severe irritant | Pig | - | 0.5 minutes 400 uL | - |
| | Skin - Severe irritant | Rabbit | - | 535 mg | - |

Sensitisation

Not available.

Section 11. Toxicological information

Potential chronic health effects

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin contact** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Eye contact** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- 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

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---------------|
| Phenol | Category 1 | - | - |

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Pipeclad 5000 Epoxy Hardener (Part B) | 1157.3 | 2671.6 | 11435.6 | N/A | N/A |
| 1,3-Benzenedimethanamine | 930 | 2000 | 4500 | N/A | N/A |
| Phenol, 4-(1,1-dimethylethyl)- | 500 | 1100 | N/A | N/A | N/A |
| Nonylphenol, 4-branched | 1300 | N/A | N/A | N/A | N/A |
| 1,6-hexanediamine,2,2,4-trimethyl | 500 | N/A | N/A | N/A | N/A |
| Phenol, 2-nonyl-, branched | 500 | N/A | N/A | N/A | N/A |
| Phenol | 100 | 630 | N/A | 0.5 | N/A |

Section 12. Ecological information

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

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------|--------------------------------------|---|----------|
| Paratertiarybutylphenol | Acute EC50 11.08 mg/l Fresh water | Algae - <i>Scenedesmus quadricauda</i> - Exponential growth phase | 72 hours |
| | Acute EC50 3.9 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 5140 µg/l Fresh water | Fish - <i>Pimephales promelas</i> | 96 hours |
| | Chronic NOEC 1 mg/l Fresh water | Algae - <i>Scenedesmus quadricauda</i> - Exponential growth phase | 72 hours |
| | Chronic NOEC 0.45 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 21 days |
| | Chronic NOEC 0.5 mg/l Fresh water | Fish - <i>Gobiocypris rarus</i> - Embryo | 28 days |
| Phenol, 4-Nonyl-, Branched | Acute EC50 0.03 mg/l Marine water | Algae - <i>Skeletonema costatum</i> | 72 hours |
| | Acute EC50 0.027 mg/l Marine water | Algae - <i>Skeletonema costatum</i> | 96 hours |
| | Acute EC50 0.044 mg/l | Crustaceans - <i>Moina macrocopa</i> | 48 hours |
| | Acute LC50 17 µg/l Marine water | Fish - <i>Pleuronectes americanus</i> - Larvae | 96 hours |
| | Chronic EC10 0.012 mg/l Marine water | Algae - <i>Skeletonema costatum</i> | 96 hours |
| | Chronic NOEC 5 µg/l Fresh water | Crustaceans - <i>Gammarus fossarum</i> - Adult | 21 days |
| | Chronic NOEC 7.4 µg/l Fresh water | Fish - <i>Pimephales promelas</i> - Embryo | 33 days |
| Phenol | Acute EC50 36 mg/l Marine water | Algae - <i>Hormosira banksii</i> - Gamete | 72 hours |
| | Acute EC50 10 ppm Marine water | Algae - <i>Macrocystis pyrifera</i> - Young | 4 days |
| | Acute EC50 94 mg/l Fresh water | Aquatic plants - <i>Lemna aequinoctialis</i> | 96 hours |
| | Acute EC50 4200 µg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |
| | Acute LC50 800 µg/l Marine water | Crustaceans - <i>Archaeomysis kokuboi</i> - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 1.75 µg/l Fresh water | Fish - <i>Cyprinus carpio</i> - Larvae | 96 hours |
| | Chronic NOEC 16 µg/l Marine water | Algae - <i>Hormosira banksii</i> - Gamete | 72 hours |
| | Chronic NOEC 1.5 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 21 days |
| | Chronic NOEC 118 µg/l Fresh water | Fish - <i>Oncorhynchus mykiss</i> | 90 days |

Persistence/degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|----------------------------|--------------------|----------|-----------|
| 1,3-Benzenedimethanamine | - | 2.69 | Low |
| Paratertiarybutylphenol | - | 44 to 48 | Low |
| Phenol, 4-Nonyl-, Branched | - | 740 | High |
| Phenol | - | 647 | High |

Mobility in soil










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

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

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Marine Pollutant |
|------------------------|-----------|--|---------|-----|---|--|
| New Zealand Class | UN3066 | PAINT RELATED MATERIAL. Marine pollutant (Paratertiarybutylphenol, Phenol, 4-Nonyl-, Branched) | 8 | III |   | Yes. |
| ADG Class | UN3066 | PAINT RELATED MATERIAL | 8 | III |  | Yes. The environmentally hazardous substance mark is not required. |
| UN Class | UN3066 | PAINT RELATED MATERIAL | 8 | III |  | Yes. The environmentally hazardous substance mark is not required. |
| ADR/RID Class | UN3066 | PAINT RELATED MATERIAL | 8 | III |   | Yes. |
| IATA Class | UN3066 | PAINT RELATED MATERIAL | 8 | III |  | Yes. The environmentally hazardous substance mark is not required. |
| IMDG Class | UN3066 | PAINT RELATED MATERIAL. Marine pollutant (Phenol, 4-Nonyl-, Branched, Paratertiarybutylphenol) | 8 | III |   | Marine pollutant |

Section 14. Transport information

Additional information

- New Zealand Class** : The marine pollutant mark is not required when transported by road or rail.
Hazchem code 2X
- ADG Class** : **Hazchem code** 2X
- UN Class** : -
- ADR/RID Class** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code E
- IATA Class** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- IMDG Class** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-A, S-B

PG* : Packing group

NZ NZS 14 Hazchem Code : 2X

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.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

- HSNO Approval Number** : HSR002658
- HSNO Group Standard** : Surface coatings and colourants
- HSNO Classification** : ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION - Category 1B
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITISATION - Category 1
REPRODUCTIVE TOXICITY - Category 2
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

History

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| Date of printing | : 04, March, 2024. |
| Date of issue/Date of revision | : 04, March, 2024 |
| Date of previous issue | : 21, September, 2023 |
| Version | : 7 |
| Key to abbreviations | : ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SGG = Segregation Group UN = United Nations |

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be held responsible for SDSs obtained from any other source.