

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** : 6946418003018  
**Product name** : Challenger CL650 HS Hardener Medium  
**Date of issue** : 19 April 2024  
**Version** : 11.34

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

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

**Supplier's details** : Axalta Coating Systems Australia Pty Limited  
 16 Darling Street, Marsden Park NSW 2765, Australia  
 Importer: L. J. SMITS LTD.  
 65 Greenmount Drive, East Tamaki, New Zealand  
 Telephone: +64 (09) 274 6871

**Product information** : +61 (0)2 8818 4300

**Emergency telephone number** : +(64) 9801 0034 NZ Poisons Information Center: 0800 764 766 or +(64) 3 479 7248

### Section 2. Hazards identification

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

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

**HSNO Classification** : FLAMMABLE LIQUIDS - Category 2  
 ACUTE TOXICITY (oral) - Category 4  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2  
 RESPIRATORY SENSITISATION - Category 1  
 SKIN SENSITISATION - Category 1  
 CARCINOGENICITY - Category 2  
 REPRODUCTIVE TOXICITY - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

#### GHS label elements

**Symbol**



**Signal word**

: Danger

## Section 2. Hazards identification

**Hazard statements** : Highly flammable liquid and vapour.  
Harmful if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing and eye or face protection.

**Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. If eye irritation persists: Get medical advice or attention.

**Storage** : Store locked up.

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

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name                          | % (w/w)  | CAS number |
|------------------------------------------|----------|------------|
| Hexamethylene diisocyanate, oligomers    | 30 - <60 | 28182-81-2 |
| xylene                                   | 10 - <30 | 1330-20-7  |
| ethyl acetate                            | 10 - <30 | 141-78-6   |
| n-butyl acetate                          | 5 - <10  | 123-86-4   |
| ethylbenzene                             | 5 - <10  | 100-41-4   |
| Solvent naphtha (petroleum), light arom. | 1 - <3   | 64742-95-6 |

**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** : 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. Get medical attention. If necessary, call a poison center or physician. 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. In the event of any complaints or symptoms, avoid further exposure.
- Ingestion** : 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. Get medical attention. If necessary, call a poison center or 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** : 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : 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. Get medical attention.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Inhalation** : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Ingestion** : Harmful if swallowed.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye irritation.

#### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
wheezing and breathing difficulties  
asthma  
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

## Section 4. First aid measures

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

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

- Specific treatments** : Not available.
- 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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### **Extinguishing media**

- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Specific hazards arising from the chemical** : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Hazchem code** : •3YE
- 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** : 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).

### Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hexamethylene diisocyanate, oligomers | <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [isocyanates, all] Skin sensitiser. Inhalation sensitiser. Notes: interim</b></p> <p>WES-TWA: 0.02 mg/m<sup>3</sup>, (measured as -NCO) 8 hours.<br/>Form: The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure.</p> <p>WES-STEL: 0.07 mg/m<sup>3</sup>, (measured as -NCO) 15 minutes. Form: The Inhalable Fraction and Vapour (ifv) notation is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases, with each contributing to a significant portion of exposure.</p> |
| xylene                                | <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). [xylene (o-, m-, p-isomers)] Ototoxicant.</b></p> <p>WES-TWA: 50 ppm 8 hours.<br/>WES-TWA: 217 mg/m<sup>3</sup> 8 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ethyl acetate                         | <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022).</b></p> <p>WES-TWA: 200 ppm 8 hours.<br/>WES-TWA: 720 mg/m<sup>3</sup> 8 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| n-butyl acetate                       | <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022).</b></p> <p>WES-TWA: 150 ppm 8 hours.<br/>WES-TWA: 713 mg/m<sup>3</sup> 8 hours.<br/>WES-STEL: 950 mg/m<sup>3</sup> 15 minutes.<br/>WES-STEL: 200 ppm 15 minutes.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ethylbenzene                          | <p><b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022). Absorbed through skin. Ototoxicant.</b></p> <p>WES-TWA: 20 ppm 8 hours.<br/>WES-TWA: 88 mg/m<sup>3</sup> 8 hours.<br/>WES-STEL: 176 mg/m<sup>3</sup> 15 minutes.<br/>WES-STEL: 40 ppm 15 minutes.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

#### 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## Section 8. Exposure controls/personal protection

**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** : 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.

**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.

**Eye 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.

**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.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid.  
**Colour** : Clear.  
**Odour** : Not available.  
**Odour threshold** : Not available.  
**pH** : Not applicable.  
**Melting point** : Technically not possible to measure  
**Boiling point** : 70 to 203°C (158 to 397.4°F)  
**Flash point** : Closed cup: 7°C (44.6°F)  
**Evaporation rate** : Not available.  
**Flammability (solid, gas)** : Not available.  
**Lower and upper explosive (flammable) limits** : Lower: 1%  
Upper: 11.4%

## Section 9. Physical and chemical properties

**Vapour pressure** : 2.7 kPa (20.4 mm Hg)

**Vapour density** : Not available.

**Density** : 0.959 g/cm<sup>3</sup>

**Solubility(ies)** :

Not available.

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : 280°C (536°F)

**Decomposition temperature** : Not applicable.

**Viscosity** : Not available.

**Flow time (ISO 2431)** : Not available.

## Section 10. Stability and reactivity

**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** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials

**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** : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Ingestion** : Harmful if swallowed.

**Skin contact** : Causes skin irritation. 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:  
wheezing and breathing difficulties  
asthma  
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

## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
 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          |
|------------------------------------------|----------------------------------------------------|----------------------|-----------------------------------------|-------------------|
| Hexamethylene diisocyanate, oligomers    | LC50 Inhalation Dusts and mists                    | Rat                  | 18500 mg/m <sup>3</sup>                 | 1 hours           |
| xylene                                   | LC50 Inhalation Gas.<br>LD50 Oral                  | Rat<br>Rat           | 5000 ppm<br>4300 mg/kg                  | 4 hours<br>-      |
| ethyl acetate                            | LC50 Inhalation Vapour<br>LD50 Dermal              | Rat<br>Rabbit        | 22.6 mg/l<br>20001 mg/kg                | 4 hours<br>-      |
| n-butyl acetate                          | LD50 Oral<br>LC50 Inhalation Vapour<br>LD50 Dermal | Rat<br>Rat<br>Rabbit | 5620 mg/kg<br>21.1 mg/l<br>>17600 mg/kg | -<br>4 hours<br>- |
| ethylbenzene                             | LD50 Oral<br>LD50 Dermal                           | Rat<br>Rabbit        | 10768 mg/kg<br>>5000 mg/kg              | -<br>-            |
| Solvent naphtha (petroleum), light arom. | LD50 Oral<br>LD50 Dermal                           | Rat<br>Rabbit        | 3500 mg/kg<br>3492 mg/kg                | -<br>-            |
|                                          | LD50 Oral                                          | Rat                  | 8400 mg/kg                              | -                 |

#### Irritation/Corrosion

| Product/ingredient name | Result                                                                       | Species                 | Score       | Exposure                                  | Observation |
|-------------------------|------------------------------------------------------------------------------|-------------------------|-------------|-------------------------------------------|-------------|
| xylene                  | Eyes - Mild irritant<br>Eyes - Severe irritant                               | Rabbit<br>Rabbit        | -<br>-      | 87 mg<br>24 hours 5 mg                    | -<br>-      |
|                         | Skin - Mild irritant<br>Skin - Moderate irritant<br>Skin - Moderate irritant | Rat<br>Rabbit<br>Rabbit | -<br>-<br>- | 8 hours 60 uL<br>100 %<br>24 hours 500 mg | -<br>-<br>- |
| ethylbenzene            | Skin - Mild irritant                                                         | Rabbit                  | -           | 24 hours 15 mg                            | -           |

#### Sensitisation

| Product/ingredient name               | Route of exposure | Species | Result      |
|---------------------------------------|-------------------|---------|-------------|
| Hexamethylene diisocyanate, oligomers | skin              | Mouse   | Sensitising |

#### Potential chronic health effects

## Section 11. Toxicological information

|                              |                                                                                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>               | : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| <b>Inhalation</b>            | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.                                                                    |
| <b>Ingestion</b>             | : No known significant effects or critical hazards.                                                                                                                      |
| <b>Skin contact</b>          | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.                                                                    |
| <b>Eye contact</b>           | : No known significant effects or critical hazards.                                                                                                                      |
| <b>Carcinogenicity</b>       | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.                                                                                 |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.                                                                                                                      |
| <b>Teratogenicity</b>        | : Suspected of damaging the unborn child.                                                                                                                                |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.                                                                                                                      |
| <b>Fertility effects</b>     | : 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

| Name          | Category   | Route of exposure | Target organs |
|---------------|------------|-------------------|---------------|
| xylene        | Category 2 | -                 | -             |
| ethyl acetate | Category 2 | -                 | -             |
| ethylbenzene  | Category 2 | -                 | -             |

### Aspiration hazard

| Name                                     |
|------------------------------------------|
| Solvent naphtha (petroleum), light arom. |

### Numerical measures of toxicity

#### Acute toxicity estimates

## Section 11. Toxicological information

| Route                        | ATE value     |
|------------------------------|---------------|
| Oral                         | 1861.23 mg/kg |
| Dermal                       | 4094.71 mg/kg |
| Inhalation (vapours)         | 69.31 mg/l    |
| Inhalation (dusts and mists) | 13.38 mg/l    |

## Section 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic and terrestrial toxicity

| Product/ingredient name               | Result                                                                                                                                                                                                                                                                | Species                                                                                                                                                                                                                                                                   | Exposure                                                                       |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Hexamethylene diisocyanate, oligomers | Acute EC50 >100 mg/l                                                                                                                                                                                                                                                  | Daphnia - <i>Daphnia magna</i>                                                                                                                                                                                                                                            | 48 hours                                                                       |
| xylene                                | Acute LC50 >100 mg/l<br>EC50 3.82 mg/l                                                                                                                                                                                                                                | Fish - <i>danio rerio</i><br>Crustaceans - <i>Penaeus monodon</i>                                                                                                                                                                                                         | 96 hours<br>48 hours                                                           |
| ethyl acetate                         | Acute LC50 13400 µg/l Fresh water<br>Acute EC50 2500000 µg/l Fresh water<br>Acute LC50 750000 µg/l Fresh water<br>Acute LC50 154000 µg/l Fresh water<br>Acute LC50 212500 µg/l Fresh water<br>Chronic NOEC 2.4 mg/l Fresh water<br>Chronic NOEC 75.6 mg/l Fresh water | Fish - <i>Pimephales promelas</i><br>Algae - <i>Selenastrum sp.</i><br>Crustaceans - <i>Gammarus pulex</i><br>Daphnia - <i>Daphnia cucullata</i><br>Fish - <i>Heteropneustes fossilis</i><br>Daphnia - <i>Daphnia magna</i><br>Fish - <i>Pimephales promelas</i> - Embryo | 96 hours<br>96 hours<br>48 hours<br>48 hours<br>96 hours<br>21 days<br>32 days |
| n-butyl acetate<br>ethylbenzene       | Acute LC50 185 ppm Marine water<br>Acute LC50 13.3 mg/l Marine water<br><br>Acute LC50 13.9 mg/l Fresh water                                                                                                                                                          | Fish - <i>Menidia beryllina</i><br>Crustaceans - <i>Artemia sp.</i> - Nauplii<br>Daphnia - <i>Daphnia magna</i> - Neonate                                                                                                                                                 | 96 hours<br>48 hours<br>48 hours                                               |

### Persistence/degradability

| Product/ingredient name               | Test       | Result                      | Dose | Inoculum         |
|---------------------------------------|------------|-----------------------------|------|------------------|
| Hexamethylene diisocyanate, oligomers | -          | 1 % - Not readily - 28 days | -    | Activated sludge |
| xylene                                | OECD 301 F | 90 % - 28 days              | -    | -                |

| Product/ingredient name               | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------------|-------------------|------------|------------------|
| Hexamethylene diisocyanate, oligomers | -                 | -          | Not readily      |
| xylene                                | -                 | -          | Readily          |

### Bioaccumulative potential

## Section 12. Ecological information

| Product/ingredient name                  | LogP <sub>ow</sub> | BCF         | Potential |
|------------------------------------------|--------------------|-------------|-----------|
| Hexamethylene diisocyanate, oligomers    | 5.54               | 367.7       | Low       |
| xylene                                   | 3.12               | 8.1 to 25.9 | Low       |
| ethyl acetate                            | 0.68               | 30          | Low       |
| n-butyl acetate                          | 2.3                | -           | Low       |
| ethylbenzene                             | 3.6                | -           | Low       |
| Solvent naphtha (petroleum), light arom. | -                  | 10 to 2500  | High      |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | New Zealand Class (5433)                                                                 | IMDG                                                                                     | IATA                                                                                       |
|-----------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>UN number</b>                  | UN1263                                                                                   | UN1263                                                                                   | UN1263                                                                                     |
| <b>UN proper shipping name</b>    | PAINT RELATED MATERIAL                                                                   | PAINT RELATED MATERIAL                                                                   | PAINT RELATED MATERIAL                                                                     |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | II                                                                                       | II                                                                                       | II                                                                                         |
| <b>Environmental hazards</b>      | No.                                                                                      | No.                                                                                      | No.                                                                                        |

## Section 14. Transport information

### Additional information

New Zealand : **Hazchem code** •3YE  
Hazchem code : •3YE

**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.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## Section 15. Regulatory information

**HSNO Approval Number** : HSR002669  
**HSNO Group Standard** : Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020  
**HSNO Classification** : FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2  
RESPIRATORY SENSITISATION - Category 1  
SKIN SENSITISATION - Category 1  
CARCINOGENICITY - Category 2  
REPRODUCTIVE TOXICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

## Section 16. Other information

### History

**Date of issue** : 19 April 2024  
**Version** : 11.34  
**Prepared by** : Product stewardship and regulatory compliance.  
**Key to abbreviations** : ACGIH = Association Advancing Occupational and Environmental Health  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HSWA = Health and Safety at Work Act 2015  
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)  
TLV = Threshold Limit Value  
WES = Workplace Exposure Standards

## Section 16. Other information

 Indicates information that has changed from previously issued version.

### Notice to reader

This product is intended for industrial use only.

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