

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** : 1250000780  
**Product name** : Cromax XK206 LE Activator (Slow)  
**Other means of identification** : Not available.  
**Date of issue** : 10/3/2022  
**Version** : 12.04

#### 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: Resene Automotive & Light Industrial  
4 Te Apunga Place, Mt Wellington, Auckland, New Zealand  
Telephone: +64 (09) 259 2738

**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

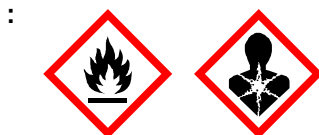
This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

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 3  
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  
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

#### GHS label elements

**Symbol**



**Signal word**

: Danger

## Section 2. Hazards identification

**Hazard statements** : Flammable liquid and vapour.  
 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.  
 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. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Wash 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 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    | >60      | 28182-81-2 |
| ethyl 3-ethoxypropionate                 | 5 - <10  | 763-69-9   |
| 2-methoxy-1-methylethyl acetate          | 5 - <10  | 108-65-6   |
| 2-butoxyethyl acetate                    | 5 - <10  | 112-07-2   |
| n-butyl acetate                          | 3 - <5   | 123-86-4   |
| xylene                                   | 1 - <3   | 1330-20-7  |
| Solvent naphtha (petroleum), light arom. | 1 - <3   | 64742-95-6 |
| 1,2,4-trimethylbenzene                   | 1 - <3   | 95-63-6    |
| ethylbenzene                             | 0.3 - <1 | 100-41-4   |

**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. 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** : No known significant effects or critical hazards.
- Skin contact** : 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** : 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. 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 dioxide  
carbon monoxide  
nitrogen oxides
- Hazchem code** : •3Y
- 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.
- Remark** : Not available.

## 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). 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. 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. Avoid release to the environment. 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 | <b>NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020).</b><br><b>Skin sensitiser. Inhalation sensitiser.</b><br>WES-TWA: 0.02 mg/m <sup>3</sup> , (measured as -NCO) 8 hours.<br>WES-STEL: 0.07 mg/m <sup>3</sup> , (measured as -NCO) 15 minutes. |
| 2-methoxy-1-methylethyl acetate       | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br><b>Absorbed through skin.</b><br>STEL: 548 mg/m <sup>3</sup> 15 minutes.<br>TWA: 50 ppm 8 hours.<br>TWA: 274 mg/m <sup>3</sup> 8 hours.<br>STEL: 100 ppm 15 minutes.                    |
| 2-butoxyethyl acetate                 | <b>ACGIH TLV (United States, 1/2021).</b><br>TWA: 20 ppm 8 hours.   |
| n-butyl acetate                       | <b>NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020).</b><br>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.                                 |
| xylene                                | <b>NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020).</b><br>WES-TWA: 50 ppm 8 hours.<br>WES-TWA: 217 mg/m <sup>3</sup> 8 hours.  |
| 1,2,4-trimethylbenzene                | <b>NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020).</b><br>WES-TWA: 25 ppm 8 hours.<br>WES-TWA: 123 mg/m <sup>3</sup> 8 hours.  |
| ethylbenzene                          | <b>NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020).</b><br>WES-TWA: 100 ppm 8 hours.<br>WES-TWA: 434 mg/m <sup>3</sup> 8 hours.<br>WES-STEL: 543 mg/m <sup>3</sup> 15 minutes.<br>WES-STEL: 125 ppm 15 minutes.                                 |

**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.

**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.

## Section 8. Exposure controls/personal protection

- 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** : Not applicable.
- Boiling point** : 146 to 203°C (294.8 to 397.4°F)
- Flash point** : Closed cup: 37°C (98.6°F)
- Fire point** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1%  
Upper: 9.8%
- Vapour pressure** : 0.16 kPa (1.2 mm Hg)
- Vapour density** : Not available.
- Density** : 1.077 g/cm<sup>3</sup>
- Solubility** : Partially soluble in the following materials: cold water.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : 280°C (536°F)
- Decomposition temperature** : Not applicable.

## Section 9. Physical and chemical properties

|                             |  |
|-----------------------------|--|
| <b>SADT</b>                 | : Not available.   |
| <b>SAPT</b>                 | : Not available.   |
| <b>Viscosity</b>            | : Dynamic: 85 mPa·s (85 cP)<br>Kinematic: 79 mm <sup>2</sup> /s (79 cSt) |
| <b>Flow time (ISO 2431)</b> | : 60 s (room temperature) [Jet diameter: 4 mm]                           |

## Section 10. Stability and reactivity

|   |   |
|---|---|
| <b>Chemical stability</b>                 | : The product is stable.  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Conditions to avoid</b>                | : 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. |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidising materials   |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## Section 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Ingestion</b>    | : No known significant effects or critical hazards.                          |
| <b>Skin contact</b> | : May cause an allergic skin reaction.                                       |
| <b>Eye contact</b>  | : Causes serious eye irritation.   |

### Symptoms related to the physical, chemical and toxicological characteristics

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>wheezing and breathing difficulties<br>asthma<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations |
| <b>Ingestion</b>    | : Adverse symptoms may include the following:<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations  |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>redness<br>reduced foetal weight<br>increase in foetal deaths<br>skeletal malformations                         |
| <b>Eye contact</b>  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness   |

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



## Section 11. Toxicological information

### Acute toxicity

| Product/ingredient name  | Result                          | Species    | Dose                    | Exposure |
|--|---------------------------------|------------|-------------------------|----------|
| Hexamethylene diisocyanate, oligomers ethyl 3-ethoxypropionate | LC50 Inhalation Dusts and mists | Rat        | 18500 mg/m <sup>3</sup> | 1 hours  |
|  | LD50 Dermal                     | Rat - Male | 4080 mg/kg              | -        |
|  | LD50 Oral                       | Rat        | 3200 mg/kg              | -        |
| 2-methoxy-1-methylethyl acetate                                | LD50 Dermal                     | Rabbit     | >5 g/kg                 | -        |
|  | LD50 Oral                       | Rat        | 8532 mg/kg              | -        |
| 2-butoxyethyl acetate  | LD50 Dermal                     | Rabbit     | 1500 mg/kg              | -        |
|  | LD50 Oral                       | Rat        | 2400 mg/kg              | -        |
| n-butyl acetate  | LC50 Inhalation Vapour          | Rat        | 21.1 mg/l               | 4 hours  |
|  | LD50 Dermal                     | Rabbit     | >17600 mg/kg            | -        |
|  | LD50 Oral                       | Rat        | 10768 mg/kg             | -        |
| xylene   | LC50 Inhalation Gas.            | Rat        | 5000 ppm                | 4 hours  |
|  | LD50 Oral                       | Rat        | 4300 mg/kg              | -        |
|  | LD50 Dermal                     | Rabbit     | 3492 mg/kg              | -        |
| Solvent naphtha (petroleum), light arom.                       | LD50 Oral                       | Rat        | 8400 mg/kg              | -        |
|  | LC50 Inhalation Vapour          | Rat        | 18000 mg/m <sup>3</sup> | 4 hours  |
| 1,2,4-trimethylbenzene   | LD50 Oral                       | Rat        | 5 g/kg                  | -        |
|  | LD50 Dermal                     | Rabbit     | >5000 mg/kg             | -        |
| ethylbenzene   | LD50 Oral                       | Rat        | 3500 mg/kg              | -        |

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

| Product/ingredient name  | Result                   | Species | Score | Exposure        | Observation |
|--------------------------|--------------------------|---------|-------|-----------------|-------------|
| ethyl 3-ethoxypropionate | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
|                          | Eyes - Mild irritant     | Rabbit  | -     | 87 mg           | -           |
| xylene                   | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg   | -           |
|                          | Skin - Mild irritant     | Rat     | -     | 8 hours 60 uL   | -           |
|                          | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
|                          | Skin - Moderate irritant | Rabbit  | -     | 100 %           | -           |
| ethylbenzene             | Skin - Moderate irritant | Rabbit  | -     | 24 hours 15 mg  | -           |
|                          | Skin - Mild irritant     | Rabbit  | -     |                 | -           |

**Skin** : Not available.

**Eyes** : Not available.

**Respiratory** : Not available.

### Sensitisation

Not available.

**Skin** : Not available.

**Respiratory** : Not available.

### Potential chronic health effects

## Section 11. Toxicological information

- General** : 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.
- Inhalation** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- 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** : 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.

**Conclusion/Summary** : Not available.

**Carcinogenicity**

Not available.

**Conclusion/Summary** : Not available.

**Mutagenicity**

Not available.

**Conclusion/Summary** : Not available.

**Teratogenicity**

Not available.

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

Not available.

**Conclusion/Summary** : Not available.

**Specific target organ toxicity**

| Name                   | Category   | Route of exposure | Target organs |
|------------------------|------------|-------------------|---------------|
| 2-butoxyethyl acetate  | Category 2 | -                 | -             |
| xylene                 | Category 2 | -                 | -             |
| 1,2,4-trimethylbenzene | Category 2 | -                 | -             |
| ethylbenzene           | Category 2 | -                 | -             |

**Aspiration hazard**

## Section 11. Toxicological information

### Name

Solvent naphtha (petroleum), light arom.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value      |
|------------------------------|----------------|
| Oral                         | 5686.88 mg/kg  |
| Dermal                       | 15303.45 mg/kg |
| Inhalation (vapours)         | 103.34 mg/l    |
| Inhalation (dusts and mists) | 6.57 mg/l      |

**Other information** : Not available.

## 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 |
|--|-------------------------------------|--|----------|
| Hexamethylene diisocyanate, oligomers              | Acute EC50 >100 mg/l                | Daphnia - Daphnia magna                      | 48 hours |
| 2-butoxyethyl acetate<br>n-butyl acetate<br>xylene | Acute LC50 >100 mg/l                | Fish - danio rerio                           | 96 hours |
|  | Chronic LC50 11 mg/l                | Fish   | 96 hours |
|  | Acute LC50 185000 µg/l Marine water | Fish - Menidia beryllina                     | 96 hours |
| 1,2,4-trimethylbenzene                             | EC50 3.82 mg/l                      | Crustaceans - Penaeus monodon                | 48 hours |
|  | Acute LC50 13400 µg/l Fresh water   | Fish - Pimephales promelas                   | 96 hours |
|  | Acute LC50 4910 µg/l Marine water   | Crustaceans - Elasmopus pecteniscrus - Adult | 48 hours |
| ethylbenzene                                       | Acute LC50 7720 µg/l Fresh water    | Fish - Pimephales promelas                   | 96 hours |
|  | Acute LC50 13.3 mg/l Marine water   | Crustaceans - Artemia sp. - Nauplii          | 48 hours |
|  | Acute LC50 13.9 mg/l Fresh water    | Daphnia - Daphnia magna - Neonate            | 48 hours |

**Conclusion/Summary** : Not available.

### Persistence/degradability

| Product/ingredient name               | Test       | Result                      | Dose | Inoculum         |
|---------------------------------------|------------|-----------------------------|------|------------------|
| Hexamethylene diisocyanate, oligomers | -          | 1 % - Not readily - 28 days | -    | Activated sludge |
| 2-butoxyethyl acetate                 | -          | >60 % - Readily - 28 days   | -    | -                |
| xylene                                | OECD 301 F | 90 % - 28 days              | -    | -                |

**Conclusion/Summary** : Not available.

| Product/ingredient name               | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------------|-------------------|------------|------------------|
| Hexamethylene diisocyanate, oligomers | -                 | -          | Not readily      |
| 2-butoxyethyl acetate                 | -                 | -          | Readily          |
| xylene                                | -                 | -          | Readily          |

## Section 12. Ecological information

### Bioaccumulative potential

| Product/ingredient name                  | LogP <sub>ow</sub> | BCF         | Potential |
|--|--------------------|-------------|-----------|
| Hexamethylene diisocyanate, oligomers    | 5.54               | 367.7       | low       |
| ethyl 3-ethoxypropionate                 | 1.47               | -           | low       |
| 2-methoxy-1-methylethyl acetate          | 1.2                | -           | low       |
| 2-butoxyethyl acetate                    | 1.51               | -           | low       |
| n-butyl acetate                          | 2.3                | -           | low       |
| xylene                                   | 3.12               | 8.1 to 25.9 | low       |
| Solvent naphtha (petroleum), light arom. | -                  | 10 to 2500  | high      |
| 1,2,4-trimethylbenzene                   | 3.63               | 243         | low       |
| ethylbenzene                             | 3.6                | -           | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : 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 |
|                                |                          |                        |                        |

## Section 14. Transport information

|                            |  |  |  |
|----------------------------|--|--|--|
| Transport hazard class(es) | 3<br> | 3<br> | 3<br> |
| Packing group              | III  | III  | III  |
| Environmental hazards      | No.  | No.  | No.  |

### Additional information

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

**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.

**Proper shipping name** : Not available.

**Ship type** : Not available.

**Pollution category** : 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 3  
 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  
 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

## Section 16. Other information

### History

|                             |  |
|-----------------------------|--|
| <b>Date of issue</b>        | : 10/3/2022  |
| <b>Version</b>              | : 12.04  |
| <b>Prepared by</b>          | : Product stewardship and regulatory compliance.   |
| <b>Key to abbreviations</b> | : ACGIH = Association Advancing Occupational and Environmental Health<br>ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>HSWA = Health and Safety at Work Act 2015<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>TLV = Threshold Limit Value<br>WES = Workplace Exposure Standards |

▣ Indicates information that has changed from previously issued version.

### Notice to reader

**This product is intended for industrial use only.**

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