

# MSDS ATTACHMENT

PLEASE ATTACH THIS COMPLETED SHEET TO THE MSDS FOR :

**PRODUCT :**

CRC 3013 Soft Seal Aerosol

**DATE :**

(MSDS date)

01/11/2019

**1. Manufacturer/Supplier :** PPS Industries Limited  
86 Hugo Johnston Drive, Auckland  
New Zealand  
P.O.Box 12823, Penrose, Auckland 1642  
Phone : 64 9 579-1001  
Facsimile : 64 9 579-9497  
Emergency Phone : 0800 657-894  
Website: www.ppsindustries.co.nz

**Emergency Information :** National Poison Centre 0800 764-766  
Chemcall 24/7 Emergency Response Service : 0800 243-622

**13. Disposal Considerations :** Product  
Recommendation - Consult local or national regulations to ensure proper disposal.

Packaging  
Disposal must be made according to official regulations.

**16. Other Information :** Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



# CRC 3013 Soft Seal / Panel Seal (Aerosol) (NZ)

## CRC Industries (CRC Industries New Zealand)

Chemwatch Hazard Alert Code: 3

Chemwatch: 4546-12

Version No: 8.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 01/11/2019

Print Date: 16/04/2024

S.GHS.NZL.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### Product Identifier

|                               |  |
|-------------------------------|--|
| Product name                  | CRC 3013 Soft Seal / Panel Seal (Aerosol) (NZ) |
| Chemical Name                 | Not Applicable                                 |
| Synonyms                      | spray-on rust corrosion inhibitor; CRX3013     |
| Proper shipping name          | AEROSOLS                                       |
| Chemical formula              | Not Applicable                                 |
| Other means of identification | Not Available                                  |

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

|                          |   |
|--------------------------|---|
| Relevant identified uses | Temporary rust preventative coating.<br>Application is by spray atomisation from a hand held aerosol pack<br>The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation. |
|--------------------------|---|

#### Details of the manufacturer or supplier of the safety data sheet

|                         |   |
|-------------------------|---|
| Registered company name | CRC Industries (CRC Industries New Zealand)         |
| Address                 | 10 Highbrook Drive East Tamaki Auckland New Zealand |
| Telephone               | +64 9 272 2700                                      |
| Fax                     | +64 9 274 9696                                      |
| Website                 | <a href="http://www.crc.co.nz">www.crc.co.nz</a>    |
| Email                   | info.nz@crc.co.nz                                   |

#### Emergency telephone number

|                                   |  |                                     |
|-----------------------------------|--|-------------------------------------|
| Association / Organisation        | CRC Industries (CRC Industries New Zealand)  | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone numbers       | NZ Poisons Centre 0800 POISON (0800 764 766) | +64 800 700 112                     |
| Other emergency telephone numbers | 111 (NZ Emergency Services)                  | +61 3 9573 3188                     |



Once connected and if the message is not in your preferred language then please dial 01

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

|   |   |
|---|---|
| Classification [1]                              | Aerosols Category 1, Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 3, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3 |
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI                                  |
| Determined by Chemwatch using GHS/HSNO criteria | 2.1.2A, 6.1E (oral), 6.3B, 6.9B (narcotic effects)  |

#### Label elements

|  |   |
|--|---|
| Hazard pictogram(s)                          |   |
| Signal word                                  | <b>Danger</b>   |
| <b>Hazard statement(s)</b>                   |   |
| H222   | Extremely flammable aerosol.  |
| H303   | May be harmful if swallowed.  |
| H316   | Causes mild skin irritation.  |
| H336   | May cause drowsiness or dizziness.  |
| <b>Precautionary statement(s) Prevention</b> |   |
| P271   | Use only outdoors or in a well-ventilated area.   |
| P261   | Avoid breathing mist/vapours/spray.   |
| <b>Precautionary statement(s) Response</b>   |   |
| P301+P312                                    | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.   |
| P332+P313                                    | If skin irritation occurs: Get medical advice/attention.  |
| P304+P340                                    | IF INHALED: Remove person to fresh air and keep comfortable for breathing.  |
| <b>Precautionary statement(s) Storage</b>    |   |
| P405   | Store locked up.  |
| P403+P233                                    | Store in a well-ventilated place. Keep container tightly closed.  |
| <b>Precautionary statement(s) Disposal</b>   |   |
| P501   | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.                                  |

## SECTION 3 Composition / information on ingredients

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No         | %[weight]   | Name  |
|----------------|---|---|
| 73513-42-5     | 30-60   | <u>isohexanes</u>                               |
| Various        | 30-60   | <u>liquid hydrocarbons</u>                      |
| Not Available  | 1-10  | surfactant                                      |
| 68476-85-7.    | 10-30   | <u>LPG (liquefied petroleum gas)</u>            |
| Not Available  |   | NOTE: Manufacturer has supplied full ingredient |
| Not Available  |   | information to allow CHEMWATCH assessment.      |
| <b>Legend:</b> | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available |   |

## SECTION 4 First aid measures

### Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | <p>If aerosols come in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
| <b>Skin Contact</b> | <p>If solids or aerosol mists are deposited upon the skin:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Remove any adhering solids with industrial skin cleansing cream.</li> <li>▶ <b>DO NOT use solvents.</b></li> </ul>   |

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | <ul style="list-style-type: none"> <li>▶ Seek medical attention in the event of irritation.</li> </ul> <p>If aerosols, fumes or combustion products are inhaled:</p> <ul style="list-style-type: none"> <li>▶ Remove to fresh air.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul> |
| <b>Ingestion</b>  | <p>Not considered a normal route of entry.</p> <ul style="list-style-type: none"> <li>▶ Avoid giving milk or oils.</li> <li>▶ Avoid giving alcohol.</li> </ul>   |

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- ▶ Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- ▶ In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- ▶ High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

**NOTE:** Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- ▶ Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- ▶ Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO<sub>2</sub> 50 mm Hg) should be intubated.
- ▶ Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- ▶ A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- ▶ Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- ▶ Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

## SECTION 5 Firefighting measures

### Extinguishing media

#### SMALL FIRE:

- ▶ Water spray, dry chemical or CO<sub>2</sub>

#### LARGE FIRE:

- ▶ Water spray or fog.

### Special hazards arising from the substrate or mixture

|                             |  |
|-----------------------------|--|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|--|

### Advice for firefighters

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> </ul>  |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat or flame.</li> <li>▶ Vapour forms an explosive mixture with air.</li> <li>▶ Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul> <p>Combustion products include:<br/>carbon dioxide (CO<sub>2</sub>)<br/>other pyrolysis products typical of burning organic material.</p> <p><b>Contains low boiling substance:</b> Closed containers may rupture due to pressure buildup under fire conditions.</p> |

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

See section 8

## Environmental precautions

See section 12

## Methods and material for containment and cleaning up

|                     |  |
|---------------------|--|
| <b>Minor Spills</b> | <p>Slippery when spilt.</p> <ul style="list-style-type: none"><li>▶ Clean up all spills immediately.</li><li>▶ Avoid breathing vapours and contact with skin and eyes.</li><li>▶ Wear protective clothing, impervious gloves and safety glasses.</li><li>▶ Shut off all possible sources of ignition and increase ventilation.</li></ul> |
| <b>Major Spills</b> | <p>Slippery when spilt.</p> <ul style="list-style-type: none"><li>▶ Clear area of personnel and move upwind.</li><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ May be violently or explosively reactive.</li><li>▶ Wear breathing apparatus plus protective gloves.</li></ul>                          |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

### Precautions for safe handling

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | <ul style="list-style-type: none"><li>▶ Avoid all personal contact, including inhalation.</li><li>▶ Wear protective clothing when risk of exposure occurs.</li><li>▶ Use in a well-ventilated area.</li><li>▶ Prevent concentration in hollows and sumps.</li><li>▶ <b>DO NOT allow clothing wet with material to stay in contact with skin</b></li></ul>  |
| <b>Other information</b> | <ul style="list-style-type: none"><li>▶ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li><li>▶ Store in original containers in approved flammable liquid storage area.</li><li>▶ <b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li><li>▶ No smoking, naked lights, heat or ignition sources.</li><li>▶ Keep containers securely sealed.</li></ul> |

### Conditions for safe storage, including any incompatibilities

|                                |  |
|--------------------------------|--|
| <b>Suitable container</b>      | <ul style="list-style-type: none"><li>▶ Aerosol dispenser.</li><li>▶ Check that containers are clearly labelled.</li></ul> |
| <b>Storage incompatibility</b> | <ul style="list-style-type: none"><li>▶ Avoid reaction with oxidising agents</li></ul>                                     |

## SECTION 8 Exposure controls / personal protection

### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

| Source   | Ingredient                    | Material name                 | TWA                               | STEL          | Peak          | Notes         |
|--|-------------------------------|-------------------------------|-----------------------------------|---------------|---------------|---------------|
| New Zealand Workplace Exposure Standards (WES) | LPG (liquefied petroleum gas) | LPG (Liquefied petroleum gas) | 1000 ppm / 1800 mg/m <sup>3</sup> | Not Available | Not Available | Not Available |

#### Emergency Limits

| Ingredient                    | TEEL-1     | TEEL-2       | TEEL-3       |
|-------------------------------|------------|--------------|--------------|
| LPG (liquefied petroleum gas) | 65,000 ppm | 2.30E+05 ppm | 4.00E+05 ppm |

| Ingredient                    | Original IDLH | Revised IDLH  |
|-------------------------------|---------------|---------------|
| isohexanes                    | Not Available | Not Available |
| liquid hydrocarbons           | Not Available | Not Available |
| LPG (liquefied petroleum gas) | 2,000 ppm     | Not Available |

### Exposure controls

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <ul style="list-style-type: none"><li>Process controls which involve changing the way a job activity or process is done to reduce the risk.</li></ul> |
|---|---|

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Individual protection measures, such as personal protective equipment



Eye and face protection

- ▶ No special equipment for minor exposure i.e. when handling small quantities.
- ▶ OTHERWISE: For potentially moderate or heavy exposures:
- ▶ Safety glasses with side shields.
- ▶ NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.

Skin protection

See Hand protection below

Hands/feet protection

- ▶ No special equipment needed when handling small quantities.
- ▶ OTHERWISE:
- ▶ For potentially moderate exposures:
- ▶ Wear general protective gloves, eg. light weight rubber gloves.
- ▶ For potentially heavy exposures:
- ▶ Wear chemical protective gloves, eg. PVC. and safety footwear.

Body protection

See Other protection below

Other protection

No special equipment needed when handling small quantities.

**OTHERWISE:**

- ▶ Overalls.
- ▶ Skin cleansing cream.
- ▶ Eyewash unit.

## Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 5 x ES                       | Air-line*            | AX-2 P2              | AX-PAPR-2 P2 ^         |
| up to 10 x ES                      | -                    | AX-3 P2              | -                      |
| 10+ x ES                           | -                    | Air-line**           | -                      |

\* - Continuous Flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

|  |  |   |                |
|--|--|---|----------------|
| Appearance                                   | Highly flammable liquid; not miscible with water.<br>Supplied as an aerosol pack. Contents under <b>PRESSURE</b> . Contains highly flammable hydrocarbon propellant. |   |                |
| Physical state                               | Liquid   | Relative density (Water = 1)            | Not Available  |
| Odour  | Not Available  | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Available  |
| pH (as supplied)                             | Not Applicable   | Decomposition temperature (°C)          | Not Available  |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                         | Not Available  |
| Initial boiling point and boiling range (°C) | Not Available  | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | <23  | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available  | Explosive properties                    | Not Available  |
| Flammability                                 | HIGHLY FLAMMABLE.  | Oxidising properties                    | Not Available  |
| Upper Explosive Limit (%)                    | Not Available  | Surface Tension (dyn/cm or mN/m)        | Not Available  |
| Lower Explosive Limit (%)                    | Not Available  | Volatile Component (%vol)               | Not Available  |

|                          |               |
|--------------------------|---------------|
| Vapour pressure (kPa)    | Not Available |
| Solubility in water      | Immiscible    |
| Vapour density (Air = 1) | >1            |

|                       |                |
|-----------------------|----------------|
| Gas group             | Not Available  |
| pH as a solution (1%) | Not Applicable |
| VOC g/L               | Not Available  |

## SECTION 10 Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | See section 7  |
| Chemical stability                 | <ul style="list-style-type: none"> <li>▸ Elevated temperatures.</li> <li>▸ Presence of open flame.</li> <li>▸ Product is considered stable.</li> <li>▸ Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

## SECTION 11 Toxicological information

### Information on toxicological effects

|              |  |
|--------------|--|
| Inhaled      | <p>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.</p> <p>There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.</p> <p><b>WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.</b></p> <p>If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death.</p> <p>Exposure to hydrocarbons may result in irregularity of heart beat. Symptoms of moderate poisoning may include dizziness, headache, nausea.</p>  |
| Ingestion    | <p>Not normally a hazard due to physical form of product.</p> <p>Considered an unlikely route of entry in commercial/industrial environments</p> <p>Accidental ingestion of the material may be damaging to the health of the individual.</p> <p>Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.</p> <p>Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.</p> |
| Skin Contact | <p>There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.</p> <p>Spray mist may produce discomfort</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.</p> <p>Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> <p>Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but branched species are more likely to.</p> <p>Medium sized alkenes can cause skin irritation and sloughing, especially in long-term exposure.</p>  |
| Eye          | <p>There is some evidence to suggest that this material can cause eye irritation and damage in some persons.</p> <p>Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged.</p> <p>Aromatic species can cause irritation and excessive tear secretion.</p>   |
| Chronic      | <p>Main route of exposure to the gas in the workplace is by inhalation.</p> <p>Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.</p> <p>Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.</p> <p>Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts on the soles of the feet.</p> <p>Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS]</p>   |

|  |   |               |
|--|---|---------------|
| CRC 3013 Soft Seal / Panel Seal (Aerosol) (NZ) | TOXICITY  | IRRITATION    |
|  | Not Available   | Not Available |
| isohexanes                                     | TOXICITY  | IRRITATION    |
|  | Dermal (rabbit) LD50: >3505 mg/kg <sup>[1]</sup><br>Inhalation (Rat) LC50: 73860 ppm4h <sup>[1]</sup> | Not Available |
| liquid hydrocarbons                            | TOXICITY  | IRRITATION    |

|                                      |   |                                    |
|--------------------------------------|---|------------------------------------|
|                                      | Not Available   | Not Available                      |
| <b>LPG (liquefied petroleum gas)</b> | <b>TOXICITY</b><br>Inhalation (Rat) LC50: 658 mg/l4h <sup>[2]</sup>   | <b>IRRITATION</b><br>Not Available |
| <b>Legend:</b>                       | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                                    |

|   |  |
|---|--|
| <b>LIQUID HYDROCARBONS</b>  | For olefins:<br>Studies have shown that normal alpha olefins have little or no toxic effect on animals except if inhaled in high concentrations. They may produce minimal skin and eye irritation, but do not sensitise the skin. Exposure to very high levels of C6-C16 normal alpha olefin vapours caused central nervous system effects, including anaesthesia (loss of sensation). If C20+ products are heated, fumes may produce nausea and irritation of the upper airway. |
| <b>LPG (LIQUEFIED PETROLEUM GAS)</b>  | inhalation of the gas  |
| <b>ISOHEXANES &amp; LIQUID HYDROCARBONS &amp; LPG (LIQUEFIED PETROLEUM GAS)</b> | No significant acute toxicological data identified in literature search.   |

|  |   |                                 |   |
|--|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✓ | <b>Carcinogenicity</b>          | ✗ |
| <b>Skin Irritation/Corrosion</b>         | ✓ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✗ | <b>STOT - Single Exposure</b>   | ✓ |
| <b>Respiratory or Skin sensitisation</b> | ✗ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
 ✓ – Data available to make classification

## SECTION 12 Ecological information

### Toxicity

|   | Endpoint   | Test Duration (hr) | Species       | Value         | Source        |
|---|--|--------------------|---------------|---------------|---------------|
| <b>CRC 3013 Soft Seal / Panel Seal (Aerosol) (NZ)</b> | Not Available  | Not Available      | Not Available | Not Available | Not Available |
| <b>isohexanes</b>                                     | Not Available  | Not Available      | Not Available | Not Available | Not Available |
| <b>liquid hydrocarbons</b>                            | Not Available  | Not Available      | Not Available | Not Available | Not Available |
| <b>LPG (liquefied petroleum gas)</b>                  | Not Available  | Not Available      | Not Available | Not Available | Not Available |
| <b>Legend:</b>  | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                    |               |               |               |

Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.).

**DO NOT** discharge into sewer or waterways.

### Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|------------------|
| isohexanes | LOW                     | LOW              |

### Bioaccumulative potential

| Ingredient | Bioaccumulation       |
|------------|-----------------------|
| isohexanes | LOW (LogKOW = 3.7056) |



## Mobility in soil

| Ingredient | Mobility              |
|------------|-----------------------|
| isohexanes | LOW (Log KOC = 230.3) |

## SECTION 13 Disposal considerations

### Waste treatment methods

| Product / Packaging disposal |   |
|------------------------------|---|
|                              | <ul style="list-style-type: none"><li>▶ Consult State Land Waste Management Authority for disposal.</li><li>▶ Discharge contents of damaged aerosol cans at an approved site.</li><li>▶ Allow small quantities to evaporate.</li><li>▶ <b>DO NOT incinerate or puncture aerosol cans.</b></li></ul> |

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

### Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

## SECTION 14 Transport information

### Labels Required

|                  |  |
|------------------|--|
|                  |  |
| Marine Pollutant | NO   |
| HAZCHEM          | Not Applicable   |

### Land transport (UN)

|                                    |   |
|------------------------------------|---|
| 14.1. UN number or ID number       | 1950  |
| 14.2. UN proper shipping name      | AEROSOLS  |
| 14.3. Transport hazard class(es)   | Class 2.1<br>Subsidiary Hazard Not Applicable                             |
| 14.4. Packing group                | Not Applicable  |
| 14.5. Environmental hazard         | Not Applicable  |
| 14.6. Special precautions for user | Special provisions 63; 190; 277; 327; 344; 381<br>Limited quantity 1000ml |

### Air transport (ICAO-IATA / DGR)

|                                    |   |
|------------------------------------|---|
| 14.1. UN number                    | 1950  |
| 14.2. UN proper shipping name      | Aerosols, flammable   |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class 2.1<br>ICAO / IATA Subsidiary Hazard Not Applicable<br>ERG Code 10L |
| 14.4. Packing group                | Not Applicable  |
| 14.5. Environmental hazard         | Not Applicable  |
| 14.6. Special precautions for user | Special provisions A145 A167 A802   |

|   |         |
|---|---------|
| Cargo Only Packing Instructions                           | 203     |
| Cargo Only Maximum Qty / Pack                             | 150 kg  |
| Passenger and Cargo Packing Instructions                  | 203     |
| Passenger and Cargo Maximum Qty / Pack                    | 75 kg   |
| Passenger and Cargo Limited Quantity Packing Instructions | Y203    |
| Passenger and Cargo Limited Maximum Qty / Pack            | 30 kg G |

#### Sea transport (IMDG-Code / GGVSee)

|                                    |   |
|------------------------------------|---|
| 14.1. UN number                    | 1950  |
| 14.2. UN proper shipping name      | AEROSOLS  |
| 14.3. Transport hazard class(es)   | IMDG Class 2.1<br>IMDG Subsidiary Hazard Not Applicable   |
| 14.4. Packing group                | Not Applicable  |
| 14.5. Environmental hazard         | Not Applicable  |
| 14.6. Special precautions for user | EMS Number F-D , S-U<br>Special provisions 63 190 277 327 344 381 959<br>Limited Quantities 1000 ml |

#### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                  | Group         |
|-------------------------------|---------------|
| isohexanes                    | Not Available |
| liquid hydrocarbons           | Not Available |
| LPG (liquefied petroleum gas) | Not Available |

#### 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name                  | Ship Type     |
|-------------------------------|---------------|
| isohexanes                    | Not Available |
| liquid hydrocarbons           | Not Available |
| LPG (liquefied petroleum gas) | Not Available |

## SECTION 15 Regulatory information

### Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

| HSR Number | Group Standard                           |
|------------|--|
| HSR002515  | Aerosols (Flammable) Group Standard 2017 |

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

#### isohexanes is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

#### liquid hydrocarbons is found on the following regulatory lists

Not Applicable

#### LPG (liquefied petroleum gas) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

### Additional Regulatory Information

Not Applicable

### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Quantity (Closed Containers)       | Quantity (Open Containers)         |
|--------------|------------------------------------|------------------------------------|
| 2.1.2A       | 3 000 L (aggregate water capacity) | 3 000 L (aggregate water capacity) |

### Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

Refer Group Standards for further information

### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Gas (aggregate water capacity in mL) | Liquid (L) | Solid (kg) | Maximum quantity per package for each classification |
|--------------|--------------------------------------|------------|------------|--|
| 2.1.2A       |                                      |            |            | 1L (aggregate water capacity)                        |

### Tracking Requirements

Not Applicable

### National Inventory Status

| National Inventory                             | Status  |
|--|---|
| Australia - AIC / Australia Non-Industrial Use | No (isohexanes)   |
| Canada - DSL                                   | No (isohexanes)   |
| Canada - NDSL                                  | No (isohexanes; LPG (liquefied petroleum gas))  |
| China - IECSC                                  | Yes   |
| Europe - EINEC / ELINCS / NLP                  | Yes   |
| Japan - ENCS                                   | Yes   |
| Korea - KECI                                   | No (isohexanes)   |
| New Zealand - NZIoC                            | Yes   |
| Philippines - PICCS                            | Yes   |
| USA - TSCA                                     | No (isohexanes)   |
| Taiwan - TCSI                                  | Yes   |
| Mexico - INSQ                                  | No (isohexanes)   |
| Vietnam - NCI                                  | Yes   |
| Russia - FBEPH                                 | No (isohexanes)   |
| <b>Legend:</b>                                 | <i>Yes = All CAS declared ingredients are on the inventory<br/>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</i> |

### SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 01/11/2019 |
| Initial Date  | 12/04/2006 |

### SDS Version Summary

| Version | Date of Update | Sections Updated   |
|---------|----------------|--|
| 8.1     | 01/11/2019     | One-off system update. NOTE: This may or may not change the GHS classification |

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## Definitions and abbreviations

- ▶ PC - TWA: Permissible Concentration-Time Weighted Average
  - ▶ PC - STEL: Permissible Concentration-Short Term Exposure Limit
  - ▶ IARC: International Agency for Research on Cancer
  - ▶ ACGIH: American Conference of Governmental Industrial Hygienists
  - ▶ STEL: Short Term Exposure Limit
  - ▶ TEEL: Temporary Emergency Exposure Limit.
  - ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
  - ▶ ES: Exposure Standard
  - ▶ OSF: Odour Safety Factor
  - ▶ NOAEL: No Observed Adverse Effect Level
  - ▶ LOAEL: Lowest Observed Adverse Effect Level
  - ▶ TLV: Threshold Limit Value
  - ▶ LOD: Limit Of Detection
  - ▶ OTV: Odour Threshold Value
  - ▶ BCF: BioConcentration Factors
  - ▶ BEI: Biological Exposure Index
  - ▶ DNEL: Derived No-Effect Level
  - ▶ PNEC: Predicted no-effect concentration
- 
- ▶ AIIC: Australian Inventory of Industrial Chemicals
  - ▶ DSL: Domestic Substances List
  - ▶ NDSL: Non-Domestic Substances List
  - ▶ IECSC: Inventory of Existing Chemical Substance in China
  - ▶ EINECS: European INventory of Existing Commercial chemical Substances
  - ▶ ELINCS: European List of Notified Chemical Substances
  - ▶ NLP: No-Longer Polymers
  - ▶ ENCS: Existing and New Chemical Substances Inventory
  - ▶ KECI: Korea Existing Chemicals Inventory
  - ▶ NZIoC: New Zealand Inventory of Chemicals
  - ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
  - ▶ TSCA: Toxic Substances Control Act
  - ▶ TCSI: Taiwan Chemical Substance Inventory
  - ▶ INSQ: Inventario Nacional de Sustancias Químicas
  - ▶ NCI: National Chemical Inventory
  - ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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