

# RESENE THINNER No 4

RESENE PAINTS LTD

Version No: 1.3

Safety Data Sheet according to HSNO Regulations

Chemwatch Hazard Alert Code: 3

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S.GHS.NZL.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

|                               |                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name                  | RESENE THINNER No 4                                                                                                                                                                        |
| Chemical Name                 | Not Applicable                                                                                                                                                                             |
| Synonyms                      | Not Available                                                                                                                                                                              |
| Proper shipping name          | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) |
| Chemical formula              | Not Applicable                                                                                                                                                                             |
| Other means of identification | Not Available                                                                                                                                                                              |
| CAS number                    | Not Applicable                                                                                                                                                                             |

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

|                          |      |
|--------------------------|------|
| Relevant identified uses | 3659 |
|--------------------------|------|

### Details of the manufacturer/importer

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Registered company name | RESENE PAINTS LTD                                  |
| Address                 | 32 - 50 Vogel Street Naenae Wellington New Zealand |
| Telephone               | +64 4 5770500                                      |
| Fax                     | +64 4 5773327                                      |
| Website                 | www.resene.co.nz                                   |
| Email                   | advice@resene.co.nz                                |

### Emergency telephone number

|                                   |                          |
|-----------------------------------|--------------------------|
| Association / Organisation        | NZ POISONS (24hr 7 days) |
| Emergency telephone numbers       | 0800 764766              |
| Other emergency telephone numbers | 0800 737636              |

### CHEMWATCH EMERGENCY RESPONSE

| Primary Number | Alternative Number 1 | Alternative Number 2 |
|----------------|----------------------|----------------------|
| +800 2436 2255 | +612 9186 1132       | Not Available        |

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

**Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.**

|                                                 |                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS Classification [1]                          | Acute Toxicity (Dermal) Category 4, Acute Toxicity (Inhalation) Category 4, Acute Toxicity (Oral) Category 4, Chronic Aquatic Hazard Category 4, Flammable Liquid Category 2, Reproductive Toxicity Category 2, Skin Corrosion/Irritation Category 2, STOT - RE Category 2, Acute Vertebrate Hazard Category 3 |
| Legend:                                         | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI                                                                                                                                                                           |
| Determined by Chemwatch using GHS/HSNO criteria | 3.1B, 6.1D (dermal), 6.1D (oral), 6.9B, 6.3A, 9.1D, 6.1D (inhalation), 6.8B                                                                                                                                                                                                                                    |

### Label elements

|                    |                                                                                     |
|--------------------|-------------------------------------------------------------------------------------|
| GHS label elements |  |
|--------------------|-------------------------------------------------------------------------------------|

SIGNAL WORD DANGER

Continued...

## RESENE THINNER No 4

### Hazard statement(s)

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| <b>H225</b> | Highly flammable liquid and vapour                                |
| <b>H302</b> | Harmful if swallowed                                              |
| <b>H312</b> | Harmful in contact with skin                                      |
| <b>H315</b> | Causes skin irritation                                            |
| <b>H332</b> | Harmful if inhaled                                                |
| <b>H361</b> | Suspected of damaging fertility or the unborn child               |
| <b>H373</b> | May cause damage to organs through prolonged or repeated exposure |
| <b>H413</b> | May cause long lasting harmful effects to aquatic life            |
| <b>H433</b> | Harmful to terrestrial vertebrates                                |

### Precautionary statement(s) Prevention

|             |                                         |
|-------------|-----------------------------------------|
| <b>P201</b> | Obtain special instructions before use. |
|-------------|-----------------------------------------|

### Precautionary statement(s) Response

|                  |                                                        |
|------------------|--------------------------------------------------------|
| <b>P308+P313</b> | IF exposed or concerned: Get medical advice/attention. |
|------------------|--------------------------------------------------------|

### Precautionary statement(s) Storage

|                  |                                              |
|------------------|----------------------------------------------|
| <b>P403+P235</b> | Store in a well-ventilated place. Keep cool. |
|------------------|----------------------------------------------|

### Precautionary statement(s) Disposal

|             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| <b>P501</b> | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|-------------|--------------------------------------------------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No    | %[weight] | Name                                                |
|-----------|-----------|-----------------------------------------------------|
| 67-63-0   | 5-15      | <a href="#">isopropanol</a>                         |
| 109-59-1  | 20-40     | <a href="#">ethylene glycol monoisopropyl ether</a> |
| 1330-20-7 | 30-50     | <a href="#">xylene</a>                              |
| 108-94-1  | 5-10      | <a href="#">cyclohexanone</a>                       |

## SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

### Description of first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately 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>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</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 skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</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>▶ Apply artificial respiration if not breathing, 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>    | <ul style="list-style-type: none"> <li>▶ <b>If swallowed do NOT induce vomiting.</b></li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Seek medical advice.</li> <li>▶ Avoid giving milk or oils.</li> <li>▶ Avoid giving alcohol.</li> <li>▶ If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul> |

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

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

To treat poisoning by the higher aliphatic alcohols (up to C7):

- ▶ Gastric lavage with copious amounts of water.
- ▶ It may be beneficial to instill 60 ml of mineral oil into the stomach.

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- ▶ Oxygen and artificial respiration as needed.
- ▶ Electrolyte balance: it may be useful to start 500 ml. M/6 sodium bicarbonate intravenously but maintain a cautious and conservative attitude toward electrolyte replacement unless shock or severe acidosis threatens.
- ▶ To protect the liver, maintain carbohydrate intake by intravenous infusions of glucose.
- ▶ Haemodialysis if coma is deep and persistent. [GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products, Ed 5]

## BASIC TREATMENT

- ▶ Establish a patent airway with suction where necessary.
- ▶ Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- ▶ Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- ▶ Monitor and treat, where necessary, for shock.
- ▶ Monitor and treat, where necessary, for pulmonary oedema.
- ▶ Anticipate and treat, where necessary, for seizures.
- ▶ **DO NOT use emetics.** Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- ▶ Give activated charcoal.

## ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- ▶ Monitor and treat, where necessary, for arrhythmias.
- ▶ Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ▶ If the patient is hypoglycaemic (decreased or loss of consciousness, tachycardia, pallor, dilated pupils, diaphoresis and/or dextrose strip or glucometer readings below 50 mg), give 50% dextrose.
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- ▶ Drug therapy should be considered for pulmonary oedema.
- ▶ Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

## EMERGENCY DEPARTMENT

- ▶ Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- ▶ Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- ▶ Acidosis may respond to hyperventilation and bicarbonate therapy.
- ▶ Haemodialysis might be considered in patients with severe intoxication.
- ▶ Consult a toxicologist as necessary. BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For C8 alcohols and above.

Symptomatic and supportive therapy is advised in managing patients.

For acute or short term repeated exposures to xylene:

- ▶ Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- ▶ Pulmonary absorption is rapid with about 60-65% retained at rest.
- ▶ Primary threat to life from 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 or pCO<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.

## BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

| Determinant                    | Index                | Sampling Time       | Comments |
|--------------------------------|----------------------|---------------------|----------|
| Methylhippu-ric acids in urine | 1.5 gm/gm creatinine | End of shift        |          |
|                                | 2 mg/min             | Last 4 hrs of shift |          |

## SECTION 5 FIREFIGHTING MEASURES

## Extinguishing media

- ▶ Alcohol stable foam.

## Special hazards arising from the substrate or mixture

- | Fire Incompatibility |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|                      | ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |

## Advice for firefighters

- |                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| Fire Fighting         | ▶ Alert Fire Brigade and tell them location and nature of hazard. |
| Fire/Explosion Hazard | ▶ Liquid and vapour are highly flammable.                         |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

- |              |                                          |
|--------------|------------------------------------------|
| Minor Spills | Environmental hazard - contain spillage. |
| Major Spills | Environmental hazard - contain spillage. |

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

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## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| <b>Safe handling</b>     | ▶ Containers, even those that have been emptied, may contain explosive vapours. |
| <b>Other information</b> | ▶ Store in original containers in approved flame-proof area.                    |

## Conditions for safe storage, including any incompatibilities

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable container</b>      | ▶ Packing as supplied by manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage incompatibility</b> | <p>n-Butyl acetate:</p> <ul style="list-style-type: none"> <li>▶ reacts with water on standing to form acetic acid and n-butyl alcohol</li> <li>▶ reacts violently with strong oxidisers and potassium tert-butoxide</li> <li>▶ is incompatible with caustics, strong acids and nitrates</li> <li>▶ dissolves rubber, many plastics, resins and some coatings</li> </ul> <p>Isopropanol (syn: isopropyl alcohol, IPA):</p> <ul style="list-style-type: none"> <li>▶ forms ketones and unstable peroxides on contact with air or oxygen; the presence of ketones especially methyl ethyl ketone (MEK, 2-butanone) will accelerate the rate of peroxidation</li> <li>▶ reacts violently with strong oxidisers, powdered aluminium (exothermic), crotonaldehyde, diethyl aluminium bromide (ignition), dioxygenyl tetrafluoroborate (ignition/ ambient temperature), chromium trioxide (ignition), potassium-tert-butoxide (ignition), nitroform (possible explosion), oleum (pressure increased in closed container), cobalt chloride, aluminium triisopropoxide, hydrogen plus palladium dust (ignition), oxygen gas, phosgene, phosgene plus iron salts (possible explosion), sodium dichromate plus sulfuric acid (exothermic/ incandescence), triisobutyl aluminium</li> <li>▶ reacts with phosphorus trichloride forming hydrogen chloride gas</li> <li>▶ reacts, possibly violently, with alkaline earth and alkali metals, strong acids, strong caustics, acid anhydrides, halogens, aliphatic amines, aluminium isopropoxide, isocyanates, acetaldehyde, barium perchlorate (forms highly explosive perchloric ester compound), benzoyl peroxide, chromic acid, dialkylzincs, dichlorine oxide, ethylene oxide (possible explosion), hexamethylene diisocyanate (possible explosion), hydrogen peroxide (forms explosive compound), hypochlorous acid, isopropyl chlorocarbonate, lithium aluminium hydride, lithium tetrahydroaluminate, nitric acid, nitrogen dioxide, nitrogen tetraoxide (possible explosion), pentafluoroguanidine, perchloric acid (especially hot), permonosulfuric acid, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium, trinitromethane</li> <li>▶ attacks some plastics, rubber and coatings</li> <li>▶ reacts with metallic aluminium at high temperature</li> <li>▶ may generate electrostatic charges</li> </ul> <p>Xylenes:</p> <ul style="list-style-type: none"> <li>▶ may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride</li> <li>▶ attack some plastics, rubber and coatings</li> <li>▶ may generate electrostatic charges on flow or agitation due to low conductivity.</li> </ul> |

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## 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) | isopropanol                         | Isopropyl alcohol               | 983 mg/m3 / 400 ppm | 1230 mg/m3 / 500 ppm | Not Available | Not Available   |
| New Zealand Workplace Exposure Standards (WES) | ethylene glycol monoisopropyl ether | Ethylene glycol isopropyl ether | 106 mg/m3 / 25 ppm  | Not Available        | Not Available | Not Available   |
| New Zealand Workplace Exposure Standards (WES) | xylene                              | Xylene (o-, m-, p-isomers)      | 217 mg/m3 / 50 ppm  | Not Available        | Not Available | Not Available   |
| New Zealand Workplace Exposure Standards (WES) | cyclohexanone                       | Cyclohexanone                   | 100 mg/m3 / 25 ppm  | Not Available        | Not Available | Skin absorption |

## EMERGENCY LIMITS

| Ingredient    | Material name                       | TEEL-1        | TEEL-2        | TEEL-3        |
|---------------|-------------------------------------|---------------|---------------|---------------|
| isopropanol   | Isopropyl alcohol                   | 400 ppm       | 400 ppm       | 12000 ppm     |
| xylene        | Xylenes                             | Not Available | Not Available | Not Available |
| cyclohexanone | Cyclohexanone; (Keto hexamethylene) | 20 ppm        | 20 ppm        | 5000 ppm      |

| Ingredient                          | Original IDLH | Revised IDLH    |
|-------------------------------------|---------------|-----------------|
| isopropanol                         | 12,000 ppm    | 2,000 [LEL] ppm |
| ethylene glycol monoisopropyl ether | Not Available | Not Available   |
| xylene                              | 1,000 ppm     | 900 ppm         |
| cyclohexanone                       | 5,000 ppm     | 700 ppm         |

## Exposure controls

|                                         |                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | <p><b>CARE:</b> Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear</p> <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.</p> |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Continued...

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal protection     |      |
| Eye and face protection | ► Safety glasses with side shields.                                                                                                                                                                                                                                                                                                                                                                                       |
| Skin protection         | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hands/feet protection   | ► Wear chemical protective gloves, e.g. PVC.                                                                                                                                                                                                                                                                                                                                                                              |
| Body protection         | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                |
| Other protection        | ► Overalls.                                                                                                                                                                                                                                                                                                                                                                                                               |
| Thermal hazards         | Not Available                                                                                                                                                                                                                                                                                                                                                                                                             |

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

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| Material          | CPI |
|-------------------|-----|
| PE/EVAL/PE        | A   |
| BUTYL             | C   |
| BUTYL/NEOPRENE    | C   |
| HYPALON           | C   |
| NAT+NEOPR+NITRILE | C   |
| NATURAL RUBBER    | C   |
| NATURAL+NEOPRENE  | C   |
| NEOPRENE          | C   |
| NEOPRENE/NATURAL  | C   |
| NITRILE           | C   |
| NITRILE+PVC       | C   |
| PE                | C   |
| PVA               | C   |
| PVC               | C   |
| PVDC/PE/PVDC      | C   |
| TEFLON            | C   |
| VITON             | C   |
| VITON/BUTYL       | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## Respiratory protection

Type A Filter of sufficient capacity.

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                       | A-AUS / Class 1      | -                    | A-PAPR-AUS / Class 1   |
| up to 25 x ES                      | Air-line*            | A-2                  | A-PAPR-2               |
| up to 50 x ES                      | -                    | A-3                  | -                      |
| 50+ x ES                           | -                    | Air-line**           | -                      |

^ - 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                                   | Clear liquid  |                                         |               |
| Physical state                               | Liquid        | Relative density (Water = 1)            | 0.873         |
| Odour                                        | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold                              | Not Available | Auto-ignition temperature (°C)          | Not Available |
| pH (as supplied)                             | Not Available | Decomposition temperature               | Not Available |
| Melting point / freezing point (°C)          | Not Available | Viscosity (cSt)                         | Not Available |
| Initial boiling point and boiling range (°C) | 126           | Molecular weight (g/mol)                | Not Available |
| Flash point (°C)                             | 22            | Taste                                   | Not Available |
| Evaporation rate                             | Not Available | Explosive properties                    | Not Available |

Continued...

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|                                  |                   |                                         |               |
|----------------------------------|-------------------|-----------------------------------------|---------------|
| <b>Flammability</b>              | HIGHLY FLAMMABLE. | <b>Oxidising properties</b>             | Not Available |
| <b>Upper Explosive Limit (%)</b> | Not Available     | <b>Surface Tension (dyn/cm or mN/m)</b> | Not Available |
| <b>Lower Explosive Limit (%)</b> | Not Available     | <b>Volatile Component (%vol)</b>        | 100           |
| <b>Vapour pressure (kPa)</b>     | Not Available     | <b>Gas group</b>                        | Not Available |
| <b>Solubility in water (g/L)</b> | Immiscible        | <b>pH as a solution(1%)</b>             | Not Available |
| <b>Vapour density (Air = 1)</b>  | Not Available     | <b>VOC g/L</b>                          | 873           |

### SECTION 10 STABILITY AND REACTIVITY

|                                           |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                         |
| <b>Chemical stability</b>                 | ► Unstable in the presence of incompatible materials. |
| <b>Possibility of hazardous reactions</b> | See section 7                                         |
| <b>Conditions to avoid</b>                | See section 7                                         |
| <b>Incompatible materials</b>             | See section 7                                         |
| <b>Hazardous decomposition products</b>   | See section 5                                         |

### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

|                     |                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.                                                                                        |
| <b>Ingestion</b>    | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.                        |
| <b>Skin Contact</b> | Skin contact with the material may be harmful; systemic effects may result following absorption.                                                                                                                         |
| <b>Eye</b>          | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). |
| <b>Chronic</b>      | Substance accumulation, in the human body, is likely and may cause some concern following repeated or long-term occupational exposure.                                                                                   |

|                                            |                                               |                                     |
|--------------------------------------------|-----------------------------------------------|-------------------------------------|
| <b>RESENE THINNER No 4</b>                 | <b>TOXICITY</b>                               | <b>IRRITATION</b>                   |
|                                            | Not Available                                 | Not Available                       |
| <b>isopropanol</b>                         | <b>TOXICITY</b>                               | <b>IRRITATION</b>                   |
|                                            | Dermal (rabbit) LD50: 12800 mg/kg             | Eye (rabbit): 10 mg - moderate      |
|                                            | Inhalation (Mouse) LC50: 53000 mg/m3/4h       | Eye (rabbit): 100 mg - SEVERE       |
|                                            | Inhalation (Rat) LC50: 72600 mg/m3/4h         | Eye (rabbit): 100mg/24hr-moderate   |
|                                            | Intraperitoneal (Guinea pig) LD50: 2560 mg/kg | Skin (rabbit): 500 mg - mild        |
|                                            | Intraperitoneal (Mouse) LD50: 4477 mg/kg      |                                     |
|                                            | Intraperitoneal (Rabbit) LD50: 667 mg/kg      |                                     |
|                                            | Intraperitoneal (Rat) LD50: 2735 mg/kg        |                                     |
|                                            | Intravenous (Mouse) LD50: 1509 mg/kg          |                                     |
|                                            | Intravenous (Rabbit) LD50: 1184 mg/kg         |                                     |
|                                            | Intravenous (Rat) LD50: 1088 mg/kg            |                                     |
|                                            | Oral (Mouse) LD50: 3600 mg/kg                 |                                     |
|                                            | Oral (Rabbit) LD50: 6410 mg/kg                |                                     |
|                                            | Oral (Rat) LD50: 5000 mg/kg                   |                                     |
|                                            | Oral (rat) LD50: 5045 mg/kg                   |                                     |
|                                            | Not Available                                 | Not Available                       |
| <b>ethylene glycol monoisopropyl ether</b> | <b>TOXICITY</b>                               | <b>IRRITATION</b>                   |
|                                            | Dermal (rabbit) LD50: 1600 mg/kg              | Eye (rabbit): 500 mg/24h - mild     |
|                                            | Inhalation (mouse) LC50: 1930 ppm/7h          | SKIN (RABBIT): 20 MG/24H - moderate |
|                                            | Inhalation (rat) LC50: 3100 mg/m3/4h          |                                     |
|                                            | Intraperitoneal (mouse) LD50: 1860 mg/kg      |                                     |
|                                            | Intraperitoneal (rat) LD50: 800 mg/kg         |                                     |
|                                            | Oral (mouse) LD50: 4900 mg/kg                 |                                     |
|                                            | Oral (rat) LD50: 5660 mg/kg                   |                                     |
|                                            | Not Available                                 | Not Available                       |
| <b>xylene</b>                              | <b>TOXICITY</b>                               | <b>IRRITATION</b>                   |

Continued...

## RESENE THINNER No 4

|  |                                          |                                    |
|--|------------------------------------------|------------------------------------|
|  | Inhalation (rat) LC50: 5000 ppm/4h       | Eye (human): 200 ppm irritant      |
|  | Intraperitoneal (Mouse) LD50: 1548 mg/kg | Eye (rabbit): 5 mg/24h SEVERE      |
|  | Intraperitoneal (Rat) LD50: 2459 mg/kg   | Eye (rabbit): 87 mg mild           |
|  | Oral (Mouse) LD50: 2119 mg/kg            | Skin (rabbit): 500 mg/24h moderate |
|  | Oral (rat) LD50: 4300 mg/kg              |                                    |
|  | Subcutaneous (Rat) LD50: 1700 mg/kg      |                                    |
|  | Not Available                            | Not Available                      |

|               |                                    |                                  |
|---------------|------------------------------------|----------------------------------|
| cyclohexanone | TOXICITY                           | IRRITATION                       |
|               | Dermal (rabbit) LD50: 948 mg/kg    | Eye (human): 75 ppm              |
|               | Inhalation (rat) LC50: 8000 ppm/4h | Eye (rabbit): 0.25 mg/24h SEVERE |
|               | Oral (rat) LD50: 1535 mg/kg        | Eye (rabbit): 4.74 mg SEVERE     |
|               |                                    | Skin (rabbit): 500 mg(open) mild |
|               | Not Available                      | Not Available                    |

|                                     |                                                                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ISOPROPANOL                         | Isopropanol is irritating to the eyes, nose and throat but generally not to the skin.                                                                                               |
| ETHYLENE GLYCOL MONOISOPROPYL ETHER | The material may be irritating to the eye, with prolonged contact causing inflammation. Somnolence, excitement, analgesia, dyspnea, respiratory tract changes, haematuria recorded. |
| XYLENE                              | Reproductive effector in rats                                                                                                                                                       |
| CYCLOHEXANONE                       | Cyclohexanone irritates the eye and the skin.                                                                                                                                       |
| RESENE THINNER No 4, XYLENE         | The material may produce severe irritation to the eye causing pronounced inflammation.                                                                                              |

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

Legend: ✓ – Data required to make classification available  
 ✗ – Data available but does not fill the criteria for classification  
 ⊘ – Data Not Available to make classification

## CMR STATUS

|            |               |  |                                                       |                                                                                   |  |  |                 |
|------------|---------------|--|-------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|-----------------|
| REPROTOXIN | xylene        |  |                                                       | ILO Chemicals in the electronics industry that have toxic effects on reproduction |  |  |                 |
|            |               |  |                                                       |                                                                                   |  |  |                 |
| SKIN       | cyclohexanone |  | New Zealand Workplace Exposure Standards (WES) - Skin |                                                                                   |  |  | Skin absorption |
|            |               |  |                                                       |                                                                                   |  |  |                 |

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

May cause long-term adverse effects in the aquatic environment.

## Persistence and degradability

| Ingredient                          | Persistence: Water/Soil     | Persistence: Air            |
|-------------------------------------|-----------------------------|-----------------------------|
| isopropanol                         | LOW (Half-life = 14 days)   | LOW (Half-life = 3 days)    |
| ethylene glycol monoisopropyl ether | LOW                         | LOW                         |
| xylene                              | HIGH (Half-life = 360 days) | LOW (Half-life = 1.83 days) |
| cyclohexanone                       | LOW                         | LOW                         |

## Bioaccumulative potential

| Ingredient  | Bioaccumulation     |
|-------------|---------------------|
| isopropanol | LOW (LogKOW = 0.05) |

Continued...

## RESENE THINNER No 4

|                                     |                     |
|-------------------------------------|---------------------|
| ethylene glycol monoisopropyl ether | LOW (LogKOW = 0.05) |
| xylene                              | MEDIUM (BCF = 740)  |
| cyclohexanone                       | LOW (BCF = 2.45)    |

### Mobility in soil

| Ingredient                          | Mobility          |
|-------------------------------------|-------------------|
| isopropanol                         | HIGH (KOC = 1.06) |
| ethylene glycol monoisopropyl ether | HIGH (KOC = 1)    |
| cyclohexanone                       | LOW (KOC = 15.15) |

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                              |                                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | ► Containers may still present a chemical hazard/ danger when empty.                                                     |
|                              | Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001. |

## SECTION 14 TRANSPORT INFORMATION

### Labels Required

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant | NO                                                                                |
| HAZCHEM          | •3YE                                                                              |

### Land transport (UN)

|                              |                                                                                                                                                                                            |                    |         |                  |                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|------------------|----------------|
| UN number                    | 1263                                                                                                                                                                                       |                    |         |                  |                |
| Packing group                | II                                                                                                                                                                                         |                    |         |                  |                |
| UN proper shipping name      | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) |                    |         |                  |                |
| Environmental hazard         | No relevant data                                                                                                                                                                           |                    |         |                  |                |
| Transport hazard class(es)   | <table border="1"> <tr> <td>Class</td><td>3</td></tr> <tr> <td>Subrisk</td><td>Not Applicable</td></tr> </table>                                                                           | Class              | 3       | Subrisk          | Not Applicable |
| Class                        | 3                                                                                                                                                                                          |                    |         |                  |                |
| Subrisk                      | Not Applicable                                                                                                                                                                             |                    |         |                  |                |
| Special precautions for user | <table border="1"> <tr> <td>Special provisions</td><td>163;367</td></tr> <tr> <td>Limited quantity</td><td>5 L</td></tr> </table>                                                          | Special provisions | 163;367 | Limited quantity | 5 L            |
| Special provisions           | 163;367                                                                                                                                                                                    |                    |         |                  |                |
| Limited quantity             | 5 L                                                                                                                                                                                        |                    |         |                  |                |

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

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|---------------------------------|----------------|-------------------------------|------|------------------------------------------|-----|----------------------------------------|-----|-----------------------------------------------------------|------|------------------------------------------------|-----|
| UN number                                                 | 1263                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Packing group                                             | II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| UN proper shipping name                                   | Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)                                                                                                                                                                                                                                                                                                                                                |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Environmental hazard                                      | No relevant data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Transport hazard class(es)                                | <table border="1"> <tr> <td>ICAO/IATA Class</td><td>3</td></tr> <tr> <td>ICAO / IATA Subrisk</td><td>Not Applicable</td></tr> <tr> <td>ERG Code</td><td>3L</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                            | ICAO/IATA Class    | 3           | ICAO / IATA Subrisk             | Not Applicable | ERG Code                      | 3L   |                                          |     |                                        |     |                                                           |      |                                                |     |
| ICAO/IATA Class                                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| ICAO / IATA Subrisk                                       | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| ERG Code                                                  | 3L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Special precautions for user                              | <table border="1"> <tr> <td>Special provisions</td><td>A3 A72 A192</td></tr> <tr> <td>Cargo Only Packing Instructions</td><td>364</td></tr> <tr> <td>Cargo Only Maximum Qty / Pack</td><td>60 L</td></tr> <tr> <td>Passenger and Cargo Packing Instructions</td><td>353</td></tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td><td>5 L</td></tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td><td>Y341</td></tr> <tr> <td>Passenger and Cargo Limited Maximum Qty / Pack</td><td>1 L</td></tr> </table> | Special provisions | A3 A72 A192 | Cargo Only Packing Instructions | 364            | Cargo Only Maximum Qty / Pack | 60 L | Passenger and Cargo Packing Instructions | 353 | Passenger and Cargo Maximum Qty / Pack | 5 L | Passenger and Cargo Limited Quantity Packing Instructions | Y341 | Passenger and Cargo Limited Maximum Qty / Pack | 1 L |
| Special provisions                                        | A3 A72 A192                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Cargo Only Packing Instructions                           | 364                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Cargo Only Maximum Qty / Pack                             | 60 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Passenger and Cargo Packing Instructions                  | 353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Passenger and Cargo Maximum Qty / Pack                    | 5 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Passenger and Cargo Limited Quantity Packing Instructions | Y341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |
| Passenger and Cargo Limited Maximum Qty / Pack            | 1 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |             |                                 |                |                               |      |                                          |     |                                        |     |                                                           |      |                                                |     |

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

Continued...



## RESENE THINNER No 4

|                              |                                                                                                                                                                                            |            |           |                    |                |                    |     |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|--------------------|----------------|--------------------|-----|
| UN number                    | 1263                                                                                                                                                                                       |            |           |                    |                |                    |     |
| Packing group                | II                                                                                                                                                                                         |            |           |                    |                |                    |     |
| UN proper shipping name      | PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) |            |           |                    |                |                    |     |
| Environmental hazard         | No relevant data                                                                                                                                                                           |            |           |                    |                |                    |     |
| Transport hazard class(es)   | <table> <tr> <td>IMDG Class</td><td>3</td></tr> <tr> <td>IMDG Subrisk</td><td>Not Applicable</td></tr> </table>                                                                            | IMDG Class | 3         | IMDG Subrisk       | Not Applicable |                    |     |
| IMDG Class                   | 3                                                                                                                                                                                          |            |           |                    |                |                    |     |
| IMDG Subrisk                 | Not Applicable                                                                                                                                                                             |            |           |                    |                |                    |     |
| Special precautions for user | <table> <tr> <td>EMS Number</td><td>F-E , S-E</td></tr> <tr> <td>Special provisions</td><td>163</td></tr> <tr> <td>Limited Quantities</td><td>5 L</td></tr> </table>                       | EMS Number | F-E , S-E | Special provisions | 163            | Limited Quantities | 5 L |
| EMS Number                   | F-E , S-E                                                                                                                                                                                  |            |           |                    |                |                    |     |
| Special provisions           | 163                                                                                                                                                                                        |            |           |                    |                |                    |     |
| Limited Quantities           | 5 L                                                                                                                                                                                        |            |           |                    |                |                    |     |

## Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

| Source                                                                          | Ingredient    | Pollution Category |
|---------------------------------------------------------------------------------|---------------|--------------------|
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk | xylene        | Y                  |
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk | cyclohexanone | Z                  |

## 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                           |
| HSR002650  | Solvents (Flammable) Group Standard 2006 |

|                                                                                          |                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| isopropanol(67-63-0) is found on the following regulatory lists                          | "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals" |
| ethylene glycol monoisopropyl ether(109-59-1) is found on the following regulatory lists | "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals"                                                                                                  |
| xylene(1330-20-7) is found on the following regulatory lists                             | "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals" |
| cyclohexanone(108-94-1) is found on the following regulatory lists                       | "New Zealand Inventory of Chemicals (NZIoC)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals" |

## Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations a location test certificate is required when quantity greater than or equal to those indicated below are present.

| Hazard Class | Quantity beyond which controls apply for closed containers                          | Quantity beyond which controls apply when use occurring in open containers |
|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 3.1B         | 100 L in containers greater than 5 L<br>250 L in containers up to and including 5 L | 50 L<br>50 L                                                               |

## Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

| Class of substance | Quantities                                                                                        |
|--------------------|---------------------------------------------------------------------------------------------------|
| 3.1B               | 250 L (when in containers greater than 5 L)<br>500 L (when in containers up to and including 5 L) |

## SECTION 16 OTHER INFORMATION

## 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.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net/references](http://www.chemwatch.net/references)

The (M)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.

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