RESENE WOODSMAN WOOD OIL STAIN

Resene Paints Ltd

Version No: **1.2**Safety Data Sheet according to HSNO Regulations

Issue Date: **20/01/2017** Print Date: **20/01/2017** L.GHS.NZL.EN

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

Product Identifier

| Product name | RESENE WOODSMAN WOOD OIL STAIN | | | | | |
|--|--------------------------------|--|--|--|--|--|
| Synonyms | able | | | | | |
| Proper shipping name PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including path) thinning or reducing compound) | | | | | | |
| Other means of identification | Not Available | | | | | |

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

| Relevant identified uses | 9969 |
|--------------------------|------|
| Relevant lucitineu uses | 9908 |

Details of the supplier of the safety data sheet

| Registered company name | esene Paints Ltd | | | |
|-------------------------|---|--|--|--|
| Address | /ogel Street Wellington Naenae 5011 New Zealand | | | |
| Telephone | +64 4 577 0500 | | | |
| Fax | +64 4 577 3327 | | | |
| Website | www.resene.co.nz | | | |
| Email | advice@resene.co.nz | | | |

Emergency telephone number

| Association / Organisation | NZ POISONS (24hr 7 days) |
|-----------------------------------|--------------------------|
| Emergency telephone numbers | 0800 764 766 |
| Other emergency telephone numbers | Not Available |

CHEMWATCH EMERGENCY RESPONSE

| Primary Number | Alternative Number 1 | Alternative Number 2 | | |
|----------------|----------------------|----------------------|--|--|
| +800 2436 2255 | +800 2436 2255 | +612 9186 1132 | | |

Once connected and if the message is not in your prefered 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

| our state of the state of the control of the contro | | | | |
|--|--|--|--|--|
| Classification [1] | Eye Irritation Category 2A, Skin Sensitizer Category 1, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3, Flammable Liquid Category 3, Skin Corrosion/Irritation Category 2, Specific target organ toxicity - single exposure Category 3(respiratory tract irritation) | | | |
| 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 6.9 (respiratory), 6.5B (contact), 9.1C, 6.7B, 6.4A, 6.3A, 9.1D, 6.8B, 3.1C | | | | |

Label elements

GHS label elements







SIGNAL WORD

WARNING

Hazard statement(s)

| H319 | ı | Causes serious eye irritation |
|------|---|-------------------------------|
|------|---|-------------------------------|

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| H317 | May cause an allergic skin reaction. |
|------|--|
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |

Precautionary statement(s) Prevention

P201 Obtain special instructions before use.

Precautionary statement(s) Response

Precautionary statement(s) Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | | | |
|-------------|-----------|---|--|--|--|
| 55406-53-6 | 0.1-1 | odo-2-propynyl butyl carbamate | | | |
| 111-77-3 | 0.1-1 | diethylene glycol monomethyl ether | | | |
| 8052-41-3. | 0.1-1 | naphtha petroleum, light, hydrodesulfurised | | | |
| 64742-82-1. | 1-10 | naphtha petroleum, heavy, hydrodesulfurised | | | |
| 95154-01-1 | 0.1-1 | -benzothiazoylthio)butanedioic acid | | | |
| 100-41-4 | 0.1-1 | hylbenzene | | | |
| 1330-20-7 | 1-10 | <u>/lene</u> | | | |
| 95-63-6 | 10-20 | 1,2,4-trimethyl benzene | | | |
| 98-82-8 | 1-10 | isopropyl benzene - cumene | | | |
| 64742-95-6 | 1-10 | naphtha petroleum, light aromatic solvent | | | |
| 1119-40-0 | 1-10 | limethyl glutarate | | | |

SECTION 4 FIRST AID MEASURES

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

Description of first aid measures

| Eye Contact | If this product comes in contact with the eyes: Wash out immediately with fresh running water. 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. Seek medical attention if pain persists or recurs. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|--|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If furnes or combustion products are inhaled remove from contaminated area. Observe patient carefully Treat symptomatically. Transport to hospital or to doctor if it is necessary. |
| Ingestion | If swallowed doNOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. |

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Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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

- Alert Fire Brigade and tell them location and nature of hazard.
 May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Fire Fighting

 Prevent, by any means available, spillage from entering drains or water course.

 If safe, switch off electrical equipment until vapour fire hazard removed.

 Use water delivered as a fine spray to control fire and cool adjacent area.
 - Avoid spraying water onto liquid pools.
 - DO NOT approach containers suspected to be hot.
 - Cool fire exposed containers with water spray from a protected location.
 - ▶ If safe to do so, remove containers from path of fire.

Fire/Explosion Hazard

- ▶ Liquid and vapour are flammable.
- Moderate fire hazard when exposed to heat or flame.
- ▶ Vapour forms an explosive mixture with air.

WARNING: Long standing in contact with air and light may result in the formation of potentially explosive peroxides.

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

| Minor Spills | Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container. |
|--------------|--|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse /absorb vapour. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services. |

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

- ▶ Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ► DO NOT allow clothing wet with material to stay in contact with skin

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Other information

▶ Store in original containers in approved flammable liquid storage area.

▶ Esters may be incompatible with aliphatic amines and nitrates.

Store away from incompatible materials in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container ► Packing as supplied by manufacturer. Dibasic esters: ▶ react with strong oxidisers with risk of fire and/ or explosion ▶ are incompatible with strong acids, nitrates Xylenes: ▶ may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride ▶ attack some plastics, rubber and coatings ▶ may generate electrostatic charges on flow or agitation due to low conductivity. Storage incompatibility ▶ Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents. ▶ Aromatics can react exothermically with bases and with diazo compounds. ▶ Esters react with acids to liberate heat along with alcohols and acids. • Strong oxidising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products. ▶ Heat is also generated by the interaction of esters with caustic solutions. Flammable hydrogen is generated by mixing esters with alkali metals and hydrides.

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) | naphtha petroleum, light, hydrodesulfurised | White spirits (Stoddard solvent) | 525 mg/m3 / 100 ppm | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | naphtha petroleum, heavy, hydrodesulfurised | White spirits (Stoddard solvent) | 525 mg/m3 / 100 ppm | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | ethylbenzene | Ethyl benzene | 434 mg/m3 / 100 ppm | 543 mg/m3 / 125 ppm | 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) | isopropyl benzene - cumene | Cumene | 125 mg/m3 / 25 ppm | 375 mg/m3 / 75 ppm | Not Available | (skin) - Skin absorption |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|--|---|---------------|---------------|---------------|
| 3-iodo-2-propynyl butyl carbamate | Butyl-3-iodo-2-propynylcarbamate | 3.3 mg/m3 | 36 mg/m3 | 220 mg/m3 |
| diethylene glycol monomethyl ether | Methoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monomethyl ether) | 3.4 ppm | 37 ppm | 220 ppm |
| naphtha petroleum, light, hydrodesulfurised | Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene) | 300 mg/m3 | 1,800 mg/m3 | 29500 mg/m3 |
| naphtha petroleum, heavy, hydrodesulfurised | Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene) | 300 mg/m3 | 1,800 mg/m3 | 29500 mg/m3 |
| ethylbenzene | Ethyl benzene | Not Available | Not Available | Not Available |
| xylene | Xylenes | Not Available | Not Available | Not Available |
| 1,2,4-trimethyl benzene | Permafluor E+ | 140 mg/m3 | 360 mg/m3 | 2,200 mg/m3 |
| 1,2,4-trimethyl benzene | Trimethylbenzene, 1,2,4-; (Pseudocumene) | Not Available | Not Available | 480 ppm |
| isopropyl benzene - cumene | Cumene; (Isopropyl benzene) | Not Available | Not Available | Not Available |

| Ingredient | Original IDLH | Revised IDLH |
|--|---------------|---------------|
| 3-iodo-2-propynyl butyl carbamate | Not Available | Not Available |
| diethylene glycol monomethyl ether | Not Available | Not Available |
| naphtha petroleum, light, hydrodesulfurised | 29,500 mg/m3 | 20,000 mg/m3 |
| naphtha petroleum, heavy, hydrodesulfurised | 29,500 mg/m3 | 20,000 mg/m3 |
| (2-benzothiazoylthio)butanedioic acid | Not Available | Not Available |
| ethylbenzene | 2,000 ppm | 800 [LEL] ppm |
| xylene | 1,000 ppm | 900 ppm |
| 1,2,4-trimethyl benzene | Not Available | Not Available |
| isopropyl benzene - cumene | 8,000 ppm | 900 [LEL] ppm |

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| naphtha petroleum, light aromatic solvent | Not Available | Not Available |
|---|---------------|---------------|
| dimethyl glutarate | Not Available | Not Available |

| Exposure controls | |
|-------------------------------------|---|
| Appropriate engineering controls | 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. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant. |
| Personal protection | |
| Eye and face protection | ▶ Safety glasses with side shields. ▶ Chemical goggles. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber |
| Body protection | See Other protection below |

Respiratory protection

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate. Selection of the Class and Type of respirator will depend upon the level of breathingzone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also beimportant.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face Respirator | Full-Face Respirator |
|------------------------------------|--|----------------------|----------------------|
| up to 10 | 1000 | A-AUS / Class 1 | - |
| up to 50 | 1000 | - | A-AUS / Class 1 |
| up to 50 | 5000 | Airline * | - |
| up to 100 | 5000 | - | A-2 |
| up to 100 | 10000 | - | A-3 |
| 100+ | | _ | Airline** |

^{* -}Continuous Flow

 $A(All classes) = Organic \ vapours, \ B \ AUS \ or \ B1 = Acid \ gases, \ B2 = Acid \ gas \ or \ hydrogen \ cyanide(HCN), \ B3 = Acid \ gas \ or \ hydrogen \ cyanide(HCN), \ E = Sulfur \ dioxide(SO2), \ G = Agricultural \ di$ chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides ofnitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below65 deg C)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Overalls.

Information on basic physical and chemical properties

| Appearance | Clear amber liquid with strong solvent odour | | |
|--|--|---|---------------|
| Physical state | Liquid | Relative density (Water = 1) | 0.92-0.94 |
| 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) | 32-53 |
| Initial boiling point and boiling range (°C) | 163 | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | 51 | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Flammable. | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | 6.5 | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | 0.6 | Volatile Component (%vol) | 86 |

^{** -}Continuous-flow or positive pressure demand.

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| Vapour pressure (kPa) | 1.3 | Gas group | Not Available |
|---------------------------|------------|-----------------------|---------------|
| Solubility in water (g/L) | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | 4.5 | VOC g/L | 695 |

SECTION 10 STABILITY AND REACTIVITY

| Reactivity | See section 7 |
|------------------------------------|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| 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 toxic | cological | effects |
|----------------------|-----------|---------|
|----------------------|-----------|---------|

| Inhaled | Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. |
|--------------|---|
| | Headache, fatigue, lassitude, irritability and gastrointestinal disturbances (e.g., nausea, anorexia and flatulence) are the most common symptoms of overexposure. |
| Ingestion | Accidental ingestion of the material may be damaging to the health of the individual. Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result. |
| Skin Contact | The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material |
| Eye | Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. |
| Chronic | Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Prolonged or repeated contact with xylenes may cause defatting dermatitis with drying and cracking. Chronic inhalation of xylenes has been associated with central nervous system effects, loss of appetite, nausea, ringing in the ears, irritability, thirst anaemia, mucosal bleeding, enlarged liver and hyperplasia. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] |

| 2 : 0 |
|-------------------------|
| 3-iodo-2-propynyl butyl |
| carbamate |

| TOXICITY | IRRITATION |
|---|-----------------------|
| dermal (rat) LD50: >2000 mg/kg ^[2] | Eye: Irritating |
| Inhalation (rat) LC50: 0.680 mg/l/4hr *[2] | Skin: Slight irritant |
| Oral (rat) LD50: 1056 mg/kg ^[2] | |

diethylene glycol monomethyl ether

| TOXICITY | IRRITATION |
|---|-------------------------------|
| Dermal (rabbit) LD50: 2525 mg/kg ^[2] | Eye (rabbit): 500 mg moderate |
| Oral (rat) LD50: 4040 mg/kg ^[2] | Eye (rabbit): 500 mg/24h mild |

naphtha petroleum, light, hydrodesulfurised

| TOXICITY | IRRITATION |
|---|---------------|
| Dermal (rabbit) LD50: >1900 mg/kg ^[1] | Not Available |
| Inhalation (rat) LC50: >1400 ppm/8hr ^[2] | |
| Oral (rat) LD50: >4500 mg/kg ^[1] | |

naphtha petroleum, heavy, hydrodesulfurised

| TOXICITY | IRRITATION |
|---|---------------|
| Dermal (rabbit) LD50: >1900 mg/kg ^[1] | Not Available |
| Inhalation (rat) LC50: >1400 ppm/8hr ^[2] | |
| Oral (rat) LD50: >4500 mg/kg ^[1] | |

(2-benzothiazoylthio)butanedioic acid

| TOXICITY | IRRITATION |
|---|---------------------------------|
| dermal (rat) LD50: >2000 mg ^[2] | Eye (rabbit): non-irritating * |
| Oral (rat) LD50: >5000 mg/kg ^[2] | Skin (rabbit): non-irritating * |

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| TOXICITY IRRITATION | | TION | |
|--|--|--|--|
| Dermal (rabbit) LD50: ca.15432.6 mg/kg ^[1] Eye (rabbit): 500 m | | bit): 500 mg - S | EVERE |
| rol | | obit): 15 mg/24h | n mild |
| Inhalation (rat) LC50: 55 mg/L/2hr ^[2] | | | |
| Oral (rat) LD50: 3500 mg/kg ^[2] | | | |
| | | | |
| TOXICITY | IRRITATION | | |
| | | 00 ppm irritant | |
| | | | |
| | | | |
| () | | | |
| | | | |
| TOXICITY | | IF | RITATION |
| | | | ot Available |
| | | | |
| | | | |
| Oral (ray) 2200. Saloso Finging | | | |
| TOXICITY | IRRITATION | | |
| | | | <u> </u> |
| | | | |
| | | | |
| | | | |
| | Ordin (rassity). I | 00 mg/2 m moc | Maria |
| TOYICITY | | | IRRITATION |
| | | | Not Available |
| | | | TOUT IT CAN A CONTROL OF THE CONTROL |
| | | | |
| Orai (rai) LD50. >4500 mg/kg ^{- 2} | | | |
| TOVICITY | le l | DITATION | |
| | | | ant. |
| | | | |
| dermal (rat) LD50: >2000 mg/kg ^[1] | | ye (rabbit): Irrita | |
| dermal (rat) LD50: >2000 mg/kg ^[-] Oral (rat) LD50: >2000 mg/kg ^[1] | | ye (rabbit): Irrita kin (human): Irr | |
| Oral (rat) LD50: >2000 mg/kg ^[1] | S | kin (human): Irr | itant |
| | ute toxicity 2.* Value obtained from n | kin (human): Irr | itant |
| Oral (rat) LD50: >2000 mg/kg ^[1] 'alue obtained from Europe ECHA Registered Substances - Ac | ute toxicity 2.* Value obtained from n | kin (human): Irr | itant |
| Oral (rat) LD50: >2000 mg/kg ^[1] 'alue obtained from Europe ECHA Registered Substances - Ac | ute toxicity 2.* Value obtained from natances | kin (human): Irr | itant |
| Oral (rat) LD50: >2000 mg/kg ^[1] falue obtained from Europe ECHA Registered Substances - Acacted from RTECS - Register of Toxic Effect of chemical Substances UTYL for 3-iodo-2-propynyl butyl carbamate (IPBC): | ute toxicity 2.* Value obtained from natances th IPBC indicate low toxicity except eading to inflammation. tates: (DGEE), diethylene glycol propyl eth | kin (human): Irr | SDS. Unless otherwise specified data |
| Oral (rat) LD50: >2000 mg/kg ^[1] Value obtained from Europe ECHA Registered Substances - Accacted from RTECS - Register of Toxic Effect of chemical Substances UTYL MATE for 3-iodo-2-propynyl butyl carbamate (IPBC): Acute toxicity: Acceptable acute toxicity studies with the material may produce moderate eye irritation lesson for diethylene glycol monoalkyl ethers and their ace This category includes diethylene glycol ethyl ether | ute toxicity 2.* Value obtained from natances th IPBC indicate low toxicity except eading to inflammation. tates: (DGEE), diethylene glycol propyl ethates. Is developed for the HPV Program by | kin (human): Irr | SDS. Unless otherwise specified data thylene glycol butyl ether (DGBE) and |
| Oral (rat) LD50: >2000 mg/kg ^[1] Value obtained from Europe ECHA Registered Substances - Acacted from RTECS - Register of Toxic Effect of chemical Substances - Acacted from RTECS - Register of Toxic Effect of chemical Substances - Acacted from RTECS - Register of Toxic Effect of chemical Substances THYL THE THYL THE THE THE THE THE THE THE TH | ute toxicity 2.* Value obtained from natances th IPBC indicate low toxicity except eading to inflammation. tates: (DGEE), diethylene glycol propyl ethates. Is developed for the HPV Program by process and compositional perspectiviterature search. Interface of the material of the materi | win (human): Irrinanufacturer's standard irritation. The properties of the properti | hylene glycol butyl ether (DGBE) and ene manufacturing streams (products) |
| | Dermal (rabbit) LD50: ca.15432.6 mg/kg ^[1] Inhalation (mouse) LC50: 35.5 mg/L/2hr ^[2] Inhalation (rat) LC50: 55 mg/L/2hr ^[2] Oral (rat) LD50: 3500 mg/kg ^[2] TOXICITY Dermal (rabbit) LD50: >1700 mg/kg ^[2] Inhalation (rat) LC50: 5000 ppm/4hr ^[2] Oral (rat) LD50: 4300 mg/kg ^[2] TOXICITY dermal (rat) LD50: 3504 mg/kg ^[1] Inhalation (rat) LC50: 18 mg/L/4hr ^[2] Oral (rat) LD50: ca.3504 mg/kg ^[1] TOXICITY Dermal (rabbit) LD50: 10602.6 mg/kg ^[1] Inhalation (rat) LC50: 39 mg/L/4hr ^[2] Oral (rat) LD50: 1400 mg/kg ^[2] TOXICITY Dermal (rabbit) LD50: >1900 mg/kg ^[1] Inhalation (rat) LC50: >3670 ppm/8 h * ^[2] Oral (rat) LD50: >4500 mg/kg ^[1] TOXICITY | Dermal (rabbit) LD50: ca.15432.6 mg/kg ^[1] Eye (rabbit).1 | Dermal (rabbit) LD50: ca.15432.6 mg/kg ^[1] Eye (rabbit): 500 mg - S |

Non-mutagenic (Ames Test) * * Halox MSDS

The substance is classified by IARC as Group 3: **NOT** classifiable as to its carcinogenicity to humans.

Ethylbenzene is readily absorbed following inhalation, oral, and dermal exposures, distributed throughout the body, and excreted primarily

Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded.

 $Other\ Toxicity\ data\ is\ available\ for\ CHEMWATCH\ 12172\ 1,2,3-trimethylbenzene\ CHEMWATCH\ 2325\ 1,3,5-trimethylbenzene$

NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to

ACID

XYLENE

ETHYLBENZENE

1,2,4-TRIMETHYL BENZENE

through urine.

cellular DNA

Reproductive effector in rats

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| ISOPROPYL BENZENE | - CUMENE | For aromatic terpenes: Acute toxicity: Mammalian LD50 for p-cymenehave shown it to have low toxic potential. Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen [National Toxicology Program: U.S. Dep. Cumene is reasonably anticipated to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in experimental animals. similar metabolic pathways. The relevance of the kidney tumors to cancer in humans is uncertain; there is evidence that a species-specific mechanism not relevant to humans contributes to their induction, but it is possible that other mechanisms relevant to humans, such as genotoxicity, may also contribute to kidney-tumour formation in male rats. | | |
|--|---------------------------------------|--|-------------------------------------|--|
| DIMETHYL G | BLUTARATE | The family of dibasic (methyl) esters (DBEs) of 1119-40-0), and dimethyl adipate (DMA, CAS | | CAS No. 106-65-0), dimethyl glutarate (DMG, CASNo. E (CAS No. 95481-62-2). |
| NAPHTHA PETROLE HYDRODESULFURISED & PETROLEI HYDRODESU | NAPHTHA UM, HEAVY, | for petroleum: This product contains benzene which is known compounds which are neuropathic. | to cause acute myeloid leukaemia ar | nd n-hexane which has been shown to metabolize to |
| NAPHTHA PETROLE HYDRODESULFURISED 8 PETROLE HYDRODESULFURIS TRIMETHYL BENZENE 8 PETROLEUM, LIGHT | NAPHTHA UM, HEAVY, SED & 1,2,4- | For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after oral, inhalation, or dermal exposure. | | |
| NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT For C9aromatics (typically trimethylbenzenes - TMBs) AcuteToxicity Acutetoxicity studies (oral, dermal and inhalation routes of exposure) have beenconducted in rats using various solvent products continuous predominantly mixedC9 aromatic hydrocarbons (CAS RN 64742-95-6). | | nducted in rats using various solvent products containing | | |
| (2-BENZOTHIAZOYLTHIO)BUTANEDIOIC ACID & 1,2,4-TRIMETHYL BENZENE & ISOPROPYL BENZENE - CUMENE & NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT AROMATIC SOLVENT | | material ceases. | | |
| ETHYLBENZENE | & XYLENE | The material may produce severe irritation to the eye causing pronounced inflammation. | | |
| ETHYLBENZENE & XYLENE & ISOPROPYL BENZENE - CUMENE & DIMETHYL GLUTARATE | | The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). | | |
| ETHYLBENZENE & ISOPROPYL BENZENE - CUMENE WA | | WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. | | |
| Acute Toxicity | × | | Carcinogenicity | ~ |
| Skin Irritation/Corrosion | ~ | | Reproductivity | ~ |
| Serious Eye Damage/Irritation | ~ | | STOT - Single Exposure | ✓ |
| | | | | |

| Acute loxicity | X | Carcinogenicity | Y |
|-----------------------------------|----------|--------------------------|----------|
| Skin Irritation/Corrosion | ✓ | Reproductivity | ✓ |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | ✓ |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | 0 |
| Mutagenicity | 0 | Aspiration Hazard | 0 |
| | | | |

Legend:

X − Data available but does not fill the criteria for classification
 ✓ − Data required to make classification available

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

| TOXIOTTY | | | | | |
|---------------------------------------|----------|--------------------|-------------------------------|--------------|--------|
| Ingredient | Endpoint | Test Duration (hr) | Species | Value | Source |
| 3-iodo-2-propynyl butyl carbamate | LC50 | 96 | Fish | 0.067mg/L | 4 |
| 3-iodo-2-propynyl butyl carbamate | EC50 | 48 | Crustacea | 0.04mg/L | 5 |
| 3-iodo-2-propynyl butyl carbamate | EC50 | 96 | Algae or other aquatic plants | 1.978mg/L | 3 |
| 3-iodo-2-propynyl butyl carbamate | EC50 | 96 | Crustacea | 0.0234mg/L | 4 |
| 3-iodo-2-propynyl butyl carbamate | NOEC | 48 | Crustacea | <0.01mg/L | 4 |
| diethylene glycol monomethyl ether | LC50 | 96 | Fish | 4276.836mg/L | 3 |
| diethylene glycol monomethyl ether | EC50 | 48 | Crustacea | >500mg/L | 1 |
| diethylene glycol monomethyl ether | EC50 | 72 | Algae or other aquatic plants | >500mg/L | 1 |
| diethylene glycol monomethyl ether | EC0 | 48 | Crustacea | =500mg/L | 1 |
| (2-benzothiazoylthio)butanedioic acid | LC50 | 96 | Fish | 868.660mg/L | 3 |
| ner benzothiazoylthio)butanedioic | | - | | | |

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| 384 96 48 96 96 168 96 48 72 24 73 96 48 96 384 96 48 | Crustacea Fish Crustacea Algae or other aquatic plants Crustacea Crustacea Fish Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Fish Crustacea Fish Crustacea Fish Crustacea Fish Crustacea | 206.657mg/L 0.0043mg/L 1.184mg/L 3.6mg/L =0.49mg/L 0.96mg/L 2.6mg/L >3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 3 4 4 2 1 5 2 2 2 2 4 2 3 1 3 3 3 3 |
|---|---|--|---|
| 48 96 96 168 96 48 72 24 73 96 48 96 | Crustacea Algae or other aquatic plants Crustacea Crustacea Fish Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | 1.184mg/L 3.6mg/L =0.49mg/L 0.96mg/L 2.6mg/L >3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 4 2 1 5 2 2 2 2 4 2 3 1 3 3 |
| 96 96 168 96 48 72 24 73 96 48 96 384 | Algae or other aquatic plants Crustacea Crustacea Fish Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | 3.6mg/L =0.49mg/L 0.96mg/L 2.6mg/L 2.6mg/L 3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 2 1 5 2 2 2 2 4 2 3 1 3 3 |
| 96 168 96 48 72 24 73 96 48 96 384 | Crustacea Crustacea Fish Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | =0.49mg/L 0.96mg/L 2.6mg/L >3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 1 5 2 2 2 4 2 3 1 3 |
| 168 96 48 72 24 73 96 48 96 384 | Crustacea Fish Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Fish Crustacea Fish | 0.96mg/L 2.6mg/L >3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 5 2 2 2 4 2 3 1 1 3 |
| 96 48 72 24 73 96 48 96 384 96 | Fish Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | 2.6mg/L >3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 2 2 2 4 2 3 1 3 3 |
| 48 72 24 73 96 48 96 384 96 | Crustacea Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Crustacea Fish | >3.4mg/L 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 2 2 4 2 3 1 3 3 |
| 72 24 73 96 48 96 384 96 | Algae or other aquatic plants Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | 4.6mg/L 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 2 4 2 3 1 3 3 |
| 24 73 96 48 96 384 96 | Crustacea Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | 0.711mg/L 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 4 2 3 1 3 3 |
| 73 96 48 96 384 96 | Algae or other aquatic plants Fish Crustacea Algae or other aquatic plants Crustacea Fish | 0.44mg/L 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 2 3 1 3 3 |
| 96 48 96 384 96 | Fish Crustacea Algae or other aquatic plants Crustacea Fish | 1.318mg/L ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 3 1 3 3 |
| 48 96 384 96 | Crustacea Algae or other aquatic plants Crustacea Fish | ca.6.14mg/L 2.154mg/L 0.328mg/L 1.784mg/L | 1 3 3 |
| 96 384 96 | Algae or other aquatic plants Crustacea Fish | 2.154mg/L 0.328mg/L 1.784mg/L | 3 |
| 384 96 | Crustacea Fish | 0.328mg/L 1.784mg/L | 3 |
| 96 | Fish | 1.784mg/L | |
| | | , , | 3 |
| 48 | Crustacea | | |
| | Orasiacca | =0.6mg/L | 1 |
| 72 | Algae or other aquatic plants | 1.29mg/L | 2 |
| 384 | Crustacea | 0.442mg/L | 3 |
| 72 | Algae or other aquatic plants | 0.22mg/L | 2 |
| 48 | Crustacea | =6.14mg/L | 1 |
| 72 | Algae or other aquatic plants | 3.29mg/L | 1 |
| 72 | Algae or other aquatic plants | 1.13mg/L | 1 |
| 72 | Algae or other aquatic plants | =1mg/L | 1 |
| 96 | Fish | 93.991mg/L | 3 |
| 96 | Algae or other aquatic plants | 7.186mg/L | 3 |
| 72 | Algae or other aquatic plants | 36mg/L | 2 |
| | 72 72 96 96 72 | 72 Algae or other aquatic plants 72 Algae or other aquatic plants 96 Fish 96 Algae or other aquatic plants 72 Algae or other aquatic plants 72 Algae or other aquatic plants | 72 Algae or other aquatic plants 1.13mg/L 72 Algae or other aquatic plants =1mg/L 96 Fish 93.991mg/L 96 Algae or other aquatic plants 7.186mg/L |

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---------------------------------------|-----------------------------|-----------------------------|
| 3-iodo-2-propynyl butyl carbamate | нівн | HIGH |
| diethylene glycol monomethyl ether | LOW | LOW |
| (2-benzothiazoylthio)butanedioic acid | нівн | HIGH |
| ethylbenzene | HIGH (Half-life = 228 days) | LOW (Half-life = 3.57 days) |
| xylene | HIGH (Half-life = 360 days) | LOW (Half-life = 1.83 days) |
| 1,2,4-trimethyl benzene | LOW (Half-life = 56 days) | LOW (Half-life = 0.67 days) |
| isopropyl benzene - cumene | HIGH | HIGH |
| dimethyl glutarate | LOW | LOW |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|---------------------------------------|-----------------------|
| 3-iodo-2-propynyl butyl carbamate | LOW (LogKOW = 2.4542) |
| diethylene glycol monomethyl ether | LOW (BCF = 0.18) |
| (2-benzothiazoylthio)butanedioic acid | LOW (LogKOW = 1.6357) |
| ethylbenzene | LOW (BCF = 79.43) |
| xylene | MEDIUM (BCF = 740) |

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| 1,2,4-trimethyl benzene | LOW (BCF = 275) |
|----------------------------|---------------------|
| isopropyl benzene - cumene | LOW (BCF = 35.5) |
| dimethyl glutarate | LOW (LogKOW = 0.62) |

Mobility in soil

| Ingredient | Mobility |
|---------------------------------------|-------------------|
| 3-iodo-2-propynyl butyl carbamate | LOW (KOC = 365.3) |
| diethylene glycol monomethyl ether | HIGH (KOC = 1) |
| (2-benzothiazoylthio)butanedioic acid | LOW (KOC = 2648) |
| ethylbenzene | LOW (KOC = 517.8) |
| 1,2,4-trimethyl benzene | LOW (KOC = 717.6) |
| isopropyl benzene - cumene | LOW (KOC = 817.2) |
| dimethyl glutarate | LOW (KOC = 10) |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

- ► Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOTallow wash water from cleaning or process equipment to enter drains
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ► Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Land transport (UN)

| UN number | 1263 |
|------------------------------|--|
| 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) |
| Transport hazard class(es) | Class 3 Subrisk Not Applicable |
| Packing group | |
| Environmental hazard | Not Applicable |
| Special precautions for user | Special provisions 163; 223; 367 Limited quantity 5 L |

Air transport (ICAO-IATA / DGR)

| • | • | • | | | |
|---|-----------|------|--|--|--|
| | UN number | 1263 | | | |

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Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or UN proper shipping name reducing compounds) ICAO/IATA Class ICAO / IATA Subrisk Transport hazard class(es) Not Applicable **ERG Code** 3L Packing group **Environmental hazard** Not Applicable A3 A72 A192 Special provisions Cargo Only Packing Instructions 366 Cargo Only Maximum Qty / Pack 220 L Special precautions for user Passenger and Cargo Packing Instructions 355 Passenger and Cargo Maximum Qty / Pack 60 L Passenger and Cargo Limited Quantity Packing Instructions Y344 Passenger and Cargo Limited Maximum Qty / Pack 10 L

Sea transport (IMDG-Code / GGVSee)

| UN number | 1263 | | | |
|------------------------------|--|--|--|--|
| UN proper shipping name | PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound) | | | |
| Transport hazard class(es) | IMDG Class 3 IMDG Subrisk Not Applicable | | | |
| Packing group | III. | | | |
| Environmental hazard | Not Applicable | | | |
| Special precautions for user | EMS Number F-E, S-E Special provisions 163 223 367 955 Limited Quantities 5 L | | | |

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

Not Applicable

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 |
|------------|--|
| HSR002669 | Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2006 |

3-IODO-2-PROPYNYL BUTYL CARBAMATE(55406-53-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

DIETHYLENE GLYCOL MONOMETHYL ETHER(111-77-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

NAPHTHA PETROLEUM, LIGHT, HYDRODESULFURISED(8052-41-3.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC New Zealand Inventory of Chemicals (NZIoC) Monographs New Zealand Workplace Exposure Standards (WES)

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

NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED(64742-82-1.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC New Zealand Inventory of Chemicals (NZIoC) Monographs New Zealand Workplace Exposure Standards (WES)

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

(2-BENZOTHIAZOYLTHIO)BUTANEDIOIC ACID(95154-01-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

ETHYLBENZENE(100-41-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

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

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

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

1,2,4-TRIMETHYL BENZENE(95-63-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Inventory of Chemicals (NZIoC)

ISOPROPYL BENZENE - CUMENE(98-82-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

New Zealand Inventory of Chemicals (NZIoC)

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

Chemicals

New Zealand Workplace Exposure Standards (WES)

NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT(64742-95-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

New Zealand Inventory of Chemicals (NZIoC)

DIMETHYL GLUTARATE(1119-40-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

New Zealand Inventory of Chemicals (NZIoC)

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 |
|--------------|--|--|
| 3.1C | 500 L in containers greater than 5 L 1500 L in containers up to and including 5 L | 250 L 250 L |

Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations and Regulation 9 of the Hazardous Substances (Classes 6, 8, and 9 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 |
|--------------------|----------------|
| Not Applicable | Not Applicable |

Refer Group Standards for further information

Tracking Requirements

Not Applicable

| National Inventory | Status |
|----------------------------------|--|
| Australia - AICS | Υ |
| Canada - DSL | Υ |
| Canada - NDSL | N (diethylene glycol monomethyl ether; 3-iodo-2-propynyl butyl carbamate; naphtha petroleum, light aromatic solvent; naphtha petroleum, light, hydrodesulfurised; xylene; ethylbenzene; dimethyl glutarate; naphtha petroleum, heavy, hydrodesulfurised; isopropyl benzene - cumene; 1,2,4-trimethyl benzene; (2-benzothiazoylthio)butanedioic acid) |
| China - IECSC | Υ |
| Europe - EINEC / ELINCS / NLP | Y |
| Japan - ENCS | Y |
| Korea - KECI | Y |
| New Zealand - NZIoC | Υ |
| Philippines - PICCS | Y |
| USA - TSCA | Υ |
| Legend: | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

| Name | CAS No |
|---|-------------------------|
| naphtha petroleum, light, hydrodesulfurised | 64742-73-0., 8052-41-3. |

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| naphtha petroleum, heavy, hydrodesulfurised | 64742-82-1., 8052-41-3., 1174921-79-9 |
|---|---------------------------------------|
| naphtha petroleum, light aromatic solvent | 64742-95-6, 25550-14-5 |

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

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

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

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