ZINC SPRAY Victoria Lub Pty Ltd

Victoria Lub Pty LtdChemwatch Hazard Alert Code: 4Chemwatch: 5551-17Issue Date: 03/08/2022Version No: 2.2Print Date: 05/08/2022Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirementsS.GHS.AUS.EN

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

Product Identifier

| Product name | ZINC SPRAY | |
|-------------------------------|--|--|
| Chemical Name | Applicable | |
| Synonyms | Z0100 | |
| Proper shipping name | EROSOLS (contains dimethyl ether and hydrocarbon propellant) | |
| Chemical formula | Not Applicable | |
| Other means of identification | Not Available | |

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

| Relevant identified uses | Application is by spray atomisation from a hand held aerosol pack Use according to manufacturer's directions. |
|--------------------------|--|
|--------------------------|--|

Details of the supplier of the safety data sheet

| Registered company name | Victoria Lub Pty Ltd | |
|-------------------------|--|--|
| Address | 4/29-39 Kirkham Rd West Keysborough VIC 3173 Australia | |
| Telephone | 3 9701 5373 | |
| Fax | ot Available | |
| Website | ww.viclube.com.au | |
| Email | info@viclube.com.au | |

Emergency telephone number

| • • • | | |
|-----------------------------------|-------------------------|------------------------------|
| Association / Organisation | Victoria Lub Pty Ltd | CHEMWATCH EMERGENCY RESPONSE |
| Emergency telephone numbers | 04 9778 3946 (24 hours) | +61 1800 951 288 |
| Other emergency telephone numbers | Not Available | +61 3 9573 3188 |

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

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

ChemWatch Hazard Ratings

| | | Min | Max | |
|--------------|---|-----|-----|-------------------------|
| Flammability | 4 | | | |
| Toxicity | 2 | | | 0 = Minimum |
| Body Contact | 2 | | 1 | 1 = Low |
| Reactivity | 1 | | | 2 = Moderate |
| Chronic | 3 | | 1 | 3 = High 4 = Extreme |

| Poisons Schedule | S5 |
|-------------------------------|---|
| Classification ^[1] | Aerosols Category 1, Acute Toxicity (Oral) Category 4, Aspiration Hazard Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 1B, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2 |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |
| | |

Label elements



ZINC SPRAY

Signal word Danger

| Hazard statement(s) | | | | |
|---------------------|--|--|--|--|
| AUH044 | Risk of explosion if heated under confinement. | | | |
| H222+H229 | Extremely flammable aerosol. Pressurized container: may burst if heated. | | | |
| H302 | Harmful if swallowed. | | | |
| H304 | May be fatal if swallowed and enters airways. | | | |
| H315 | Causes skin irritation. | | | |
| H319 | Causes serious eye irritation. | | | |
| H336 | May cause drowsiness or dizziness. | | | |
| H360Df | May damage the unborn child. Suspected of damaging fertility. | | | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | | | |
| H411 | Toxic to aquatic life with long lasting effects. | | | |

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. | | |
|------|--|--|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | | |
| P211 | Do not spray on an open flame or other ignition source. | | |
| P251 | Do not pierce or burn, even after use. | | |
| P260 | o not breathe gas. | | |
| P271 | Jse only outdoors or in a well-ventilated area. | | |
| P280 | Near protective gloves, protective clothing, eye protection and face protection. | | |
| P264 | Wash all exposed external body areas thoroughly after handling. | | |
| P270 | Do not eat, drink or smoke when using this product. | | |
| P273 | Avoid release to the environment. | | |

Precautionary statement(s) Response

| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. | | | |
|----------------|--|--|--|--|
| P331 | Do NOT induce vomiting. | | | |
| P308+P313 | IF exposed or concerned: Get medical advice/ attention. | | | |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | | |
| P337+P313 | eye irritation persists: Get medical advice/attention. | | | |
| P391 | Collect spillage. | | | |
| P301+P312 | F SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. | | | |
| P302+P352 | F ON SKIN: Wash with plenty of water and soap. | | | |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | | | |
| P330 | Rinse mouth. | | | |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. | | | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. | | | |
| | | | | |

Precautionary statement(s) Storage

| P405 | Store locked up. | |
|-----------|---|--|
| P410+P412 | rotect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. | |

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|-----------|-----------|-------------------------|
| 108-88-3 | 10-30 | toluene |
| 67-64-1 | 10-30 | acetone |
| 64-17-5 | 1-5 | ethanol |
| 7779-90-0 | 1-5 | zinc phosphate |
| 7429-90-5 | 1-5 | aluminium powder coated |

ZINC SPRAY

| CAS No | %[weight] Name | |
|---------------|--|--|
| 68476-85-7. | 10-30 hydrocarbon propellant | |
| 115-10-6 | 10-30 <u>dimethyl ether</u> | |
| Not Available | balance | Ingredients determined not to be hazardous |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available | |

SECTION 4 First aid measures

| Description of first aid measur | es |
|---------------------------------|---|
| Eye Contact | If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation. |
| Inhalation | If aerosols, fumes or combustion products are inhaled: Remove to fresh air. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. |
| Ingestion | Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- Following acute or short term repeated exposures to toluene:
- Toluene is absorbed across the alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37 degrees C.) The concentration of toluene, in expired breath, is of the order of 18 ppm following sustained exposure to 100 ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.
- Metabolism by microsomal mono-oxygenation, results in the production of hippuric acid. This may be detected in the urine in amounts between 0.5 and 2.5 g/24 hr which
- represents, on average 0.8 gm/gm of creatinine. The biological half-life of hippuric acid is in the order of 1-2 hours. Primary threat to life from ingestion and/or inhalation is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (eg cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 <50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial damage 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 (adrenaline) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective
- bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use

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 |
|------------------------|--------------------|---------------------------------|----------|
| o-Cresol in urine | 0.5 mg/L | End of shift | В |
| Hippuric acid in urine | 1.6 g/g creatinine | End of shift | B, NS |
| Toluene in blood | 0.05 mg/L | Prior to last shift of workweek | |
| | | | |

NS: Non-specific determinant; also observed after exposure to other material

B: Background levels occur in specimens collected from subjects NOT exposed

SECTION 5 Firefighting measures

Extinguishing media

DO NOT use halogenated fire extinguishing agents.

SMALL FIRE:

Water spray, dry chemical or CO2 LARGE FIRE:

Water spray or fog.

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 FOR FIRES INVOLVING MANY GAS CYLINDERS:

| | To stop the flow of gas, specifically trained personnel may inert the atmosphere to reduce oxygen levels thus allowing the capping of leaking container(s). Reduce the rate of flow and inject an inert gas, if possible, before completely stopping the flow to prevent flashback. DO NOT extinguish the fire until the supply is shut off otherwise an explosive re-ignition may occur. If the fire is extinguished and the flow of gas continues, used increased ventilation to prevent build-up, of explosive atmosphere. Use non-sparking tools to close container valves. Be CAUTIOUS of a Boiling Liquid Evaporating Vapour Explosion, <i>BLEVE</i>, if fire is impinging on surrounding containers. Direct 2500 litre/min (500 gpm) water stream onto containers above liquid level with the assistance remote monitors. 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. 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. DO NOT approach containers suspected to be hot. Cool fire exposed containers must be hot. Cool fire exposed containers from path of fire. Equipment should be thoroughly decontaminated after use. |
|-----------------------|---|
| Fire/Explosion Hazard | Liquipment should be introducing decontaminated after dse. Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon monoxide (CO) metal oxides other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions. |
| HAZCHEM | Not Applicable |

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 | Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. |
|--------------|--|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. 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. Conlation or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled drums for disposal. Water spray or go may be used to drainers for recycling. Collect recoverable product into labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services. Fit vent pipes. Release pressure under safe, controlled conditions Burn issuing gas at vent pipes. Do NOT evert excessive pressure on valve; DO NOT attempt to operate damaged valve. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wash breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses 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. Wash breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be use |

Undamaged cans should be gathered and stowed safely.
 Collect residues and seal in labelled drums for disposal.

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

SECTION 7 Handling and storage

| Precautions for safe handling | |
|-------------------------------|---|
| Safe handling | The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. A void all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT est, drink or smoke. DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food utensils. Avoid physical damage to containers. Avoid physical damage to containers. Avoid physical damage to containers. Avoid shudder a sequence of explanation within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. |
| Other information | Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. |

Conditions for safe storage, including any incompatibilities

| | Suitable containe | er ► Aer ► Che | osol dispenser. eck that containe | ers are clearly la | belled. | | |
|---------|-------------------|---------------------------------|---|--|--|--|--|
| Stora | age incompatibili | ▶ Avo ▶ Con proc ▶ Seg | id oxidising age npressed gases duced by the ga pregate from alc | ents, acids, acid s may contain a l as in chemical rea ohol, water. | chlorides, acid a arge amount of action with other | nhydrides, chlorof kinetic energy ove r substances | ormates. r and above that potentially available from the energy of reaction |
| \land | \wedge | | | | $\mathbf{\wedge}$ | $\mathbf{\wedge}$ | |



X — Must not be stored together

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|----------------------------|------------------------------------|--------------------------|--------------------------|------------------|------------------|
| Australia Exposure Standards | toluene | Toluene | 50 ppm / 191 mg/m3 | 574 mg/m3 / 150 ppm | Not Available | Not Available |
| Australia Exposure Standards | acetone | Acetone | 500 ppm / 1185 mg/m3 | 2375 mg/m3 / 1000 ppm | Not Available | Not Available |
| Australia Exposure Standards | ethanol | Ethyl alcohol | 1000 ppm / 1880 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | aluminium powder coated | Aluminium (metal dust) | 10 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | aluminium powder coated | Aluminium, pyro powders (as Al) | 5 mg/m3 | Not Available | Not Available | Not Available |

| Source | Ingredient | Material name | | TWA | STEL | | Peak | Notes |
|------------------------------|----------------------------|-----------------------------|---------------|--------------------------|---------------------|---------------|------------------|------------------|
| Australia Exposure Standards | aluminium powder coated | Aluminium (weldi (as Al) | ing fumes) | 5 mg/m3 | Not Av | ailable | Not Available | Not Available |
| Australia Exposure Standards | hydrocarbon propellant | LPG (liquified per | troleum gas) | 1000 ppm / 1800 mg/m3 | Not Av | ailable | Not Available | Not Available |
| Australia Exposure Standards | dimethyl ether | Dimethyl ether | | 400 ppm / 760 mg/m3 | 950 mg/m3 / 500 ppm | | Not Available | Not Available |
| Emergency Limits | | | | | | | | |
| Ingredient | TEEL-1 | | TEEL-2 | | | TEEL-3 | | |
| toluene | Not Available | | Not Available | | | Not Available | | |
| | | | | | | | | |

| acetone | Not Available Not Available | | | Not Available | | |
|-------------------------|-----------------------------|---------------|---------------|---------------|--|--|
| ethanol | Not Available | Not Available | | 15000* ppm | | |
| zinc phosphate | 12 mg/m3 | 36 mg/m3 | | 220 mg/m3 | | |
| hydrocarbon propellant | 65,000 ppm | 2.30E+05 ppm | | 4.00E+05 ppm | | |
| dimethyl ether | 3,000 ppm | 3800* ppm | | 7200* ppm | | |
| | | | | | | |
| Ingredient | Original IDLH | | Revised IDLH | | | |
| toluene | 500 ppm | | Not Available | Not Available | | |
| acetone | 2,500 ppm | | Not Available | | | |
| ethanol | 3,300 ppm | | Not Available | | | |
| zinc phosphate | Not Available | | Not Available | | | |
| aluminium powder coated | Not Available | | Not Available | | | |
| hydrocarbon propellant | 2,000 ppm | | Not Available | | | |
| dimethyl ether | 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. * Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area. * Work should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system. * Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample pots or openings closed while the carcinogens are contained within. * Open-vessel systems are prohibited. * Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. * Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should be introduced in sufficient volume to maintain correct operation of the local exhaust system. * For maintenance and decontamina |
|-------------------------------------|--|
| Personal protection | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] |
| Skin protection | See Hand protection below |
| Hands/feet protection | No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eq. PVC. and safety footwear. |

| Body protection | See Other protection below |
|------------------|---|
| Other protection | Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. No special equipment needed when handling small quantities. OTHERWISE: Overalls. Skin cleansing cream. Eyewash unit. Do not spray on hot surfaces. |

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:

ZINC SPRAY

| Material | CPI |
|-------------------|-----|
| BUTYL | С |
| BUTYL/NEOPRENE | С |
| CPE | С |
| HYPALON | С |
| NATURAL RUBBER | С |
| NATURAL+NEOPRENE | С |
| NEOPRENE | С |
| NEOPRENE/NATURAL | С |
| NITRILE | С |
| NITRILE+PVC | С |
| PE/EVAL/PE | С |
| PVA | С |
| PVC | С |
| PVDC/PE/PVDC | С |
| SARANEX-23 | С |
| SARANEX-23 2-PLY | С |
| TEFLON | С |
| VITON | С |
| VITON/CHLOROBUTYL | С |
| VITON/NEOPRENE | С |

* 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.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Silver liquid with characteristic odour, immiscible in water. | | |
|-----------------|---|---|---------------|
| Physical state | Compressed Gas | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |

Respiratory protection

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

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

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES | AX-AUS | - | AX-PAPR-AUS / Class 1 |
| up to 50 x ES | - | AX-AUS / Class 1 | - |
| up to 100 x ES | - | AX-2 | AX-PAPR-2 ^ |

^ - 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(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- 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.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used
- Generally not applicable.

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

| pH (as supplied) | Not Applicable | Decomposition temperature (°C) | Not Available |
|---|----------------|--------------------------------------|----------------|
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | >50 |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (Not Available%) | Not Applicable |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|-------------------------------------|--|
| Chemical stability | Elevated temperatures. Presence of open flame. 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 toxicological ef | nformation on toxicological effects | | | | |
|---------------------------------|---|--|--|--|--|
| Inhaled | Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of toxic gases may cause: | | | | |
| Ingestion | 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. There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments | | | | |
| Skin Contact | The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. | | | | |
| Eye | Not considered to be a risk because of the extreme volatility of the gas. The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated. | | | | |
| Chronic | Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. There is sufficient evidence to suggest that this material directly causes cancer in humans. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. | | | | |

| | TOXICITY | IRRITATION |
|-----------------------|---|--|
| ZINC SPRAY | Not Available | Not Available |
| | ΤΟΧΙCITY | IRRITATION |
| | Dermal (rabbit) LD50: 12124 mg/kg ^[2] | Eye (rabbit): 2mg/24h - SEVERE |
| | Inhalation(Rat) LC50; >13350 ppm4h ^[2] | Eye (rabbit):0.87 mg - mild |
| | Oral (Rat) LD50; 636 mg/kg ^[2] | Eye (rabbit):100 mg/30sec - mild |
| toluene | | Eye: adverse effect observed (irritating) ^[1] |
| | | Skin (rabbit):20 mg/24h-moderate |
| | | Skin (rabbit):500 mg - moderate |
| | | Skin: adverse effect observed (irritating) ^[1] |
| | | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| | Dermal (rabbit) LD50: 20000 mg/kg ^[2] | Eye (human): 500 ppm - irritant |
| | Inhalation(Mouse) LC50; 44 mg/L4h ^[2] | Eye (rabbit): 20mg/24hr -moderate |
| | Oral (Rat) LD50; 5800 mg/kg ^[2] | Eye (rabbit): 3.95 mg - SEVERE |
| acetone | | Eye: adverse effect observed (irritating) ^[1] |
| | | Skin (rabbit): 500 mg/24hr - mild |
| | | Skin (rabbit):395mg (open) - mild |
| | | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| | Dermal (rabbit) LD50: 17100 mg/kg ^[1] | Eye (rabbit): 500 mg SEVERE |
| | Inhalation(Rat) LC50; 64000 ppm4h ^[2] | Eye (rabbit):100mg/24hr-moderate |
| ethanol | Oral (Rat) LD50; 7060 mg/kg ^[2] | Eye: adverse effect observed (irritating) ^[1] |
| | | Skin (rabbit):20 mg/24hr-moderate |
| | | Skin (rabbit):400 mg (open)-mild |
| | | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| zinc phosphate | Oral (Rat) LD50; >5000 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] |
| | | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| ninium powder coated | Inhalation(Rat) LC50; >2.3 mg/l4h ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| | Oral (Rat) LD50; >2000 mg/kg ^[1] | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| yarocarbon propellant | Inhalation(Rat) LC50; 658 mg/l4h ^[2] | Not Available |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| dimethyl ether | Inhalation(Rat) C50: >20000 ppm4b[1] | Not Available |

| TOLUENE | For toluene: Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, congestion and bleeding of the lungs and kidney injury were all found on autopsy. Exposure to inhalation at a concentration of 600 parts per million for 8 hours resulted in the same and more serious symptoms including euphoria (a feeling of well-being), dilated pupils, convulsions and nausea. Exposure to 1000-30000 parts per million (1-3%) has been reported to cause narcosis and death. Toluene can also strip the skin of lipids, causing skin inflammation. Subchronic/chronic effects: Repeat doses of toluene cause adverse central nervous system effects and can damage the upper airway, the liver and the kidney. Adverse effects occur from both swallowing and inhalation. In humans, a reported lowest level causing adverse effects on the nervous system is 88 parts per million. In one case, toluene cause dheart sensitization and death. In several cases of "glue sniffing", damage to the cerebellum was noted. Workers chronically exposed to toluene fumes have reported reduced white cell counts. Developmental/Reproductive toxicity: Exposure to high levels of toluene can result in adverse effects in the developing foetus. Several studies have indicated that high levels of solvent abuse by the mother, variable growth, a small head, central nervous system dysfunction, attention deficits, minor facial and limb abnormalities, and developmental delay were seen. Absorption: Studies in humans and animals have shown that toluene is easily absorbed through the lungs and gastrointestinal tract, with much |
|---------|--|
| | Absorption: Studies in humans and animals have shown that toluene is easily absorbed through the lungs and gastrointestinal tract, with much |

| | less being absorbed through the skin. Distribution: Animal studies show that toluene may be with lower levels in the blood, kidney and liver. Toluen Metabolism: Inhaled or ingested toluene may be meta acid. Benzoic acid is sometimes conjugated with glyci O-cresol and p-cresol formed by ring hydroxylation ar Excretion: Toluene is mainly (60-70%) excreted throu unchanged toluene through exhaled air also accounts | e distributed in the body fat, bone marr ne has generally been found to accume abolized to benzyl alcohol, after which ine to form hippuric acid or reacted wi e considered minor metabolites. gh the urine as hippuric acid. Benzoyl s for 10-20%. Excretion of hippuric acid | ow, spinal nerves, spinal cord and brain white matter, ulate in fatty tissue, and in highly vascularised tissues. it is further oxidized to benzaldehyde and benzoic h glucuronic acid to form benzoyl glucuronide. glucuronide accounts for 10-20% of excretion, and d is usually complete within 24 hours of exposure. | |
|--|--|---|---|--|
| ACETONE | For acetone: The acute toxicity of acetone is low. Acetone is not a testing shows acetone may cause macrocytic anaemi metre has not caused neurobehavioural deficits. | For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause macrocytic anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/cubic metre has not caused neurobehavioural deficits. | | |
| HYDROCARBON PROPELLANT | inhalation of the gas | | | |
| TOLUENE & ACETONE & ETHANOL | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. | | | |
| ALUMINIUM POWDER COATED & HYDROCARBON PROPELLANT | No significant acute toxicological data identified in literature search. | | | |
| | | | | |
| 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: X – Data either r ✓ – Data availab | not available or does not fill the criteria for classification le to make classification | |

SECTION 12 Ecological information

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|-----------------------|------------------|--------------------|-------------------------------|----------------------------|------------------|
| ZINC SPRAY | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 48h | Crustacea | 3.78mg/L | 5 |
| toluene | NOEC(ECx) | 168h | Crustacea | 0.74mg/L | 5 |
| | LC50 | 96h | Fish | 5-35mg/l | 4 |
| | EC50 | 96h | Algae or other aquatic plants | >376.71mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 12h | Fish | 0.001mg/L | 4 |
| acetone | EC50 | 48h | Crustacea | 6098.4mg/L | 5 |
| | LC50 | 96h | Fish | 3744.6-5000.7mg/L | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 9.873-27.684mg/l | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50(ECx) | 96h | Algae or other aquatic plants | <0.001mg/L | 4 |
| | EC50 | 72h | Algae or other aquatic plants | 275mg/l | 2 |
| ethanoi | EC50 | 48h | Crustacea | >79mg/L | 4 |
| | LC50 | 96h | Fish | >100mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | <0.001mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| zinc phosphate | EC50(ECx) | 24h | Crustacea | 0.22mg/l | 2 |
| | EC50 | 48h | Crustacea | >1.08mg/ | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 48h | Crustacea | >100mg/l | 1 |
| | EC50 | 72h | Algae or other aquatic plants | 0.2mg/l | 2 |
| | | | | | |
| uminium powder coated | EC50 | 48h | Crustacea | 1.5mg/l | 2 |
| uminium powder coated | EC50 LC50 | 48h 96h | Crustacea Fish | 1.5mg/l 0.078-0.108mg/l | 2 |

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|------------------------|----------------------------------|--|--|---|-----------------------|
| | EC50(ECx) | 96h | Algae or other aquatic plants | 7.71mg/l | 2 |
| | LC50 | 96h | Fish | 24.11mg/l | 2 |
| hydrocarbon propellant | EC50 | 96h | Algae or other aquatic plants | 7.71mg/l | 2 |
| | EC50(ECx) | 96h | Algae or other aquatic plants | 7.71mg/l | 2 |
| | LC50 | 96h | Fish | 24.11mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 7.71mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 48h | Crustacea | >4400mg/L | 2 |
| dimethyl ether | NOEC(ECx) | 48h | Crustacea | >4000mg/l | 1 |
| | LC50 | 96h | Fish | 1783.04mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 154.917mg/l | 2 |
| Legend: | Extracted from Ecotox databas | 1. IUCLID Toxicity Data 2. Europe ECHA Registere e - Aquatic Toxicity Data 5. ECETOC Aquatic Haza | d Substances - Ecotoxicological Information - Ac and Assessment Data 6. NITE (Japan) - Bioconce | quatic Toxicity 4. L Intration Data 7. M | IS EPA, ETI (Japar |

Toxic 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 |
|----------------|-----------------------------|----------------------------------|
| toluene | LOW (Half-life = 28 days) | LOW (Half-life = 4.33 days) |
| acetone | LOW (Half-life = 14 days) | MEDIUM (Half-life = 116.25 days) |
| ethanol | LOW (Half-life = 2.17 days) | LOW (Half-life = 5.08 days) |
| dimethyl ether | LOW | LOW |

Bioaccumulative potential

| Ingredient | Bioaccumulation | |
|----------------|----------------------|--|
| toluene | W (BCF = 90) | |
| acetone | LOW (BCF = 0.69) | |
| ethanol | LOW (LogKOW = -0.31) | |
| dimethyl ether | LOW (LogKOW = 0.1) | |

Mobility in soil

| Ingredient | Mobility | |
|----------------|--------------------|--|
| toluene |)W (KOC = 268) | |
| acetone | HIGH (KOC = 1.981) | |
| ethanol | HIGH (KOC = 1) | |
| dimethyl ether | HIGH (KOC = 1.292) | |

SECTION 13 Disposal considerations

| Naste treatment methods | | | | |
|------------------------------|---|--|--|--|
| Product / Packaging disposal | DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. Bury residues and emptied aerosol cans at an approved site. | | | |

SECTION 14 Transport information

Labels Required



Marine Pollutant

Not Applicable

HAZCHEM

| Land transport (ADG) | | | | |
|------------------------------|--|---|--|--|
| UN number | 1950 | 1950 | | |
| UN proper shipping name | AEROSOLS (contains | AEROSOLS (contains dimethyl ether and hydrocarbon propellant) | | |
| Transport hazard class(es) | Class 2.1 Subrisk Not Applicable | | | |
| Packing group | Not Applicable | | | |
| Environmental hazard | Environmentally hazardous | | | |
| Special precautions for user | Special provisions Limited quantity | 63 190 277 327 344 381 1000ml | | |

Air transport (ICAO-IATA / DGR)

| UN number | 1950 | | | |
|------------------------------|---|--|--|--|
| UN proper shipping name | Aerosols, flammable (co | Aerosols, flammable (contains dimethyl ether and hydrocarbon propellant) | | |
| Transport hazard class(es) | ICAO/IATA Class2.1ICAO / IATA SubriskNot ApplicableERG Code10L | | | |
| Packing group | Not Applicable | | | |
| Environmental hazard | Environmentally hazardous | | | |
| Special precautions for user | Special provisions Cargo Only Packing Ir Cargo Only Maximum Passenger and Cargo Passenger and Cargo Passenger and Cargo Passenger and Cargo | astructions Qty / Pack Packing Instructions Maximum Qty / Pack Limited Quantity Packing Instructions Limited Maximum Qty / Pack | A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G | |

Sea transport (IMDG-Code / GGVSee)

| UN number | 1950 | | | |
|------------------------------|--|---|--|--|
| UN proper shipping name | AEROSOLS (contai | AEROSOLS (contains dimethyl ether and hydrocarbon propellant) | | |
| Transport hazard class(es) | IMDG Class 2.1 IMDG Subrisk Not Applicable | | | |
| Packing group | Not Applicable | | | |
| Environmental hazard | Marine Pollutant | | | |
| Special precautions for user | EMS Number Special provisions Limited Quantities | F-D, S-U 63 190 277 327 344 381 959 1000 ml | | |

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

| Product name | Group |
|-------------------------|---------------|
| toluene | Not Available |
| acetone | Not Available |
| ethanol | Not Available |
| zinc phosphate | Not Available |
| aluminium powder coated | Not Available |
| hydrocarbon propellant | Not Available |
| dimethyl ether | Not Available |

| Product name | Ship Type |
|-------------------------|---------------|
| toluene | Not Available |
| acetone | Not Available |
| ethanol | Not Available |
| zinc phosphate | Not Available |
| aluminium powder coated | Not Available |
| hydrocarbon propellant | Not Available |
| dimethyl ether | Not Available |
| | |

SECTION 15 Regulatory information

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

| l | toluene is found on the following regulatory lists | |
|----|--|--|
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | Australian Inventory of Industrial Chemicals (AIIC) |
| | Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - | Chemical Footprint Project - Chemicals of High Concern List |
| | Schedule 5 | International Agency for Research on Cancer (IARC) - Agents Classified by the IARC |
| | Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - | Monographs |
| | Schedule 6 | |
| l | acetone is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | Australian Inventory of Industrial Chemicals (AIIC) |
| | Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $% \left(1-\frac{1}{2}\right) =0$ | |
| l | ethanol is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | Australian Inventory of Industrial Chemicals (AIIC) |
| l | zinc phosphate is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | Australian Inventory of Industrial Chemicals (AIIC) |
| | Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - | International WHO List of Proposed Occupational Exposure Limit (OEL) Values for |
| | Schedule 4 | Manufactured Nanomaterials (MNMS) |
| l | aluminium powder coated is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | International WHO List of Proposed Occupational Exposure Limit (OEL) Values for |
| | Australian Inventory of Industrial Chemicals (AIIC) | Manufactured Nanomaterials (MNMS) |
| l | hydrocarbon propellant is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | Chemical Footprint Project - Chemicals of High Concern List |
| | Australian Inventory of Industrial Chemicals (AIIC) | |
| i. | | |
| ļ, | dimethyl ether is found on the following regulatory lists | |
| | Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals | Australian Inventory of Industrial Chemicals (AIIC) |

National Inventory Status

Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

| National Inventory | Status | |
|--|---|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes | |
| Canada - DSL | Yes | |
| Canada - NDSL | No (toluene; acetone; ethanol; aluminium powder coated; hydrocarbon propellant; dimethyl ether) | |
| China - IECSC | Yes | |
| Europe - EINEC / ELINCS / NLP | 15 | |
| Japan - ENCS | (aluminium powder coated) | |
| Korea - KECI | Yes | |
| New Zealand - NZIoC | Yes | |
| Philippines - PICCS | 35 | |
| USA - TSCA | Yes | |
| Taiwan - TCSI | Yes | |
| Mexico - INSQ | No (zinc phosphate) | |
| Vietnam - NCI | Yes | |
| Russia - FBEPH | Yes | |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. | |

SECTION 16 Other information

| Revision Date | 03/08/2022 |
|---------------|------------|
| Initial Date | 03/08/2022 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|----------------------|
| 2.1 | 03/08/2022 | Ingredients |
| 2.2 | 04/08/2022 | Supplier 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.

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

Definitions and abbreviations

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

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