Callington Haven Pty Ltd

Chemwatch: **22-4972** Version No: **9.1** Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017 Chemwatch Hazard Alert Code: 3

Issue Date: 10/12/2020 Print Date: 16/03/2022 S.GHS.NZL.EN

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

| Product Identifier | | |
|-------------------------------|-------------------------|--|
| Product name | D-100 Aerosol Developer | |
| Synonyms | Not Available | |
| Proper shipping name | AEROSOLS | |
| Chemical formula | Not Applicable | |
| Other means of identification | Not Available | |

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

| Relevant identified uses | Used in NDT testing as a developer. |
|--------------------------|---|
| Relevant identified uses | Application is by spray atomisation from a hand held aerosol pack |

Details of the supplier of the safety data sheet

| Registered company name | Callington Haven Pty Ltd | |
|-------------------------|--|--|
| Address | 30 South Street Rydalmere NSW 2116 Australia | |
| Telephone | 1 2 9898 2700 | |
| Fax | +61 2 9475 0449 | |
| Website | www.callingtonhaven.com | |
| Email | customerservice@callington.com | |

Emergency telephone number

| Association / Organisation | CHEMWATCH EMERGENCY RESPONSE | |
|-----------------------------------|------------------------------|--|
| Emergency telephone numbers | +64 800 700 112 | |
| Other emergency telephone numbers | +61 2 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

| Classification ^[1] | Acute Toxicity (Oral) Category 5, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Aerosols Category 1 | |
|--|---|--|
| Legend: | 1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI | |
| Determined by Chemwatch using GHS/HSNO criteria | 2.1.2A, 6.1E (oral), 6.4A, 6.9B (narcotic effects) | |

Label elements

Signal word Da

Danger

Hazard statement(s)

| H303 | May be harmful if swallowed. | |
|------|------------------------------------|--|
| H319 | Causes serious eye irritation. | |
| H336 | May cause drowsiness or dizziness. | |
| H222 | Extremely flammable aerosol. | |

Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area. | |
|--|--|--|
| P261 | Avoid breathing mist/vapours/spray. | |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. | |
| P264 Wash all exposed external body areas thoroughly after handling. | | |

Precautionary statement(s) Response

| ······································ | | |
|--|--|--|
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. | |
| 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 | If eye irritation persists: Get medical advice/attention. | |
| P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. | | |

Precautionary statement(s) Storage

| • • • • • • • | • | | |
|--|---|--|--|
| P405 Store locked up. | | | |
| P403+P233 Store in a well-ventilated place. Keep container tightly closed. | | | |
| | | | |

Precautionary statement(s) Disposal

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|---------------|--|--|
| 67-63-0 | 30-60 | isopropanol |
| 14807-96-6 | 10-20 | talc |
| 68476-85-7. | 30-60 | hydrocarbon propellant |
| Not Available | | Ingredients determined not to be hazardous |
| Legend: | 1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available | |

SECTION 4 First aid measures

| Description of first aid measur | es |
|---------------------------------|--|
| 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 without delay; if pain persists or recurs seek medical attention. 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 fumes or combustion products are inhaled remove from contaminated area. 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. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. |
| Ingestion | Not considered a normal route of entry. If swallowed do NOT 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. |

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to isopropanol:

- Rapid onset respiratory depression and hypotension indicates serious ingestions that require careful cardiac and respiratory monitoring together with immediate intravenous access.
- Rapid absorption precludes the usefulness of emesis or lavage 2 hours post-ingestion. Activated charcoal and cathartics are not clinically useful. Ipecac is most useful when given 30 mins. post-ingestion.
- There are no antidotes.
- Management is supportive. Treat hypotension with fluids followed by vasopressors.
- Watch closely, within the first few hours for respiratory depression; follow arterial blood gases and tidal volumes.
- ▶ Ice water lavage and serial haemoglobin levels are indicated for those patients with evidence of gastrointestinal bleeding.

SECTION 5 Firefighting measures

Extinguishing media

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

Special hazards arising from the substrate or mixture

| Fire Incompatibility | Avoid contamination with strong oxidising agents as ignition may result | | |
|-------------------------|---|--|--|
| Advice for firefighters | | | |
| Fire Fighting | 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. | | |
| Fire/Explosion Hazard | 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. Other combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. | | |

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. |
|--------------|--|
| 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 courses No smoking, naked lights or ignition sources. |

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

SECTION 7 Handling and storage

Precautions for safe handling

| Safe handling | Avoid 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. |
|-------------------|---|
| Other information | Store in original containers in approved flame-proof 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. |

Conditions for safe storage, including any incompatibilities

| Suitable container | Aerosol dispenser. Check that containers are clearly labelled. |
|-------------------------|---|
| Storage incompatibility | Avoid storage with oxidisers |

SECTION 8 Exposure controls / personal protection

Control parameters

| Occupational Exposure Limits (OEL) | |
|------------------------------------|--|
| INGREDIENT DATA | |

Material name

TWA

Peak

STEL

Notes

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---|---------------------------|--|--------------------------|-------------------------|------------------|------------------|
| New Zealand Workplace Exposure Standards (WES) | isopropanol | Isopropyl alcohol | 400 ppm / 983 mg/m3 | 1230 mg/m3 / 500 ppm | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | talc | Talc (containing no asbestos fibres) respirable dust | 2 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | talc | Soapstone respirable dust | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | hydrocarbon propellant | LPG (Liquefied petroleum gas) | 1000 ppm / 1800 mg/m3 | Not Available | Not Available | Not Available |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 |
|------------------------|---------------|--------------|---------------|--------------|
| isopropanol | 400 ppm | 2000* ppm | | 12000** ppm |
| hydrocarbon propellant | 65,000 ppm | 2.30E+05 ppm | | 4.00E+05 ppm |
| Ingredient | Original IDLH | | Revised IDLH | |
| isopropanol | 2,000 ppm | | Not Available | |
| talc | 1,000 mg/m3 | | Not Available | |
| hydrocarbon propellant | 2,000 ppm | | Not Available | |

Exposure controls

| • | |
|-------------------------------------|---|
| Appropriate engineering controls | Use in a well-ventilated area General exhaust is adequate under normal operating conditions. |
| Personal protection | |
| Eye and face protection | No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE : For potentially moderate or heavy exposures: Safety glasses with side shields. NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them. |
| Skin protection | See Hand protection below |
| Hands/feet protection | No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety footwear. |
| Body protection | See Other protection below |
| Other protection | No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit. • 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 computergenerated selection:

D-100 Aerosol Developer

| Material | СРІ |
|-------------------|-----|
| NEOPRENE | А |
| NITRILE | A |
| NITRILE+PVC | A |
| PE/EVAL/PE | A |
| PVC | В |
| NAT+NEOPR+NITRILE | С |
| NATURAL RUBBER | С |
| NATURAL+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

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)

Continued...

D-100 Aerosol Developer

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 | water. Sweet solvent odour. Dries to white powder. Supplied as an aerosol pack. Contents under PRESSURE . Contains highly flammable hydrocarbon propellant. | | | |
|---|---|---|----------------|--|
| Physical state | Liquid | Relative density (Water = 1) | Not Available | |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available | |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available | |
| pH (as supplied) | Not Applicable | Decomposition temperature | 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) | 11.7 (isoprop) | Taste | Not Available | |
| Evaporation rate | Not Available | Explosive properties | Not Available | |
| Flammability | HIGHLY FLAMMABLE. | Oxidising properties | Not Available | |
| Upper Explosive Limit (%) | 9.5 | Surface Tension (dyn/cm or mN/m) | Not Available | |
| Lower Explosive Limit (%) | 1.8 | Volatile Component (%vol) | Not Available | |
| Vapour pressure (kPa) | 345 @ 21C | Gas group | Not Available | |
| Solubility in water | Miscible | pH as a solution (Not Available%) | Not Applicable | |
| Vapour density (Air = 1) | >1 | 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 effects

| - | | | | | |
|-------------------------|---|---|--|--|--|
| Inhaled | Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal. | | | | |
| Ingestion | Not normally a hazard due to physical form of product. The liquid is discomforting Ingestion may result in nausea, abdominal irritation, pain and vomiting | | | | |
| Skin Contact | The liquid may produce skin discomfort following prolonged contact. Defatting and/or drying of the skin may lead to dermatitis The material may accentuate any pre-existing skin condition | | | | |
| Eye | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | | | |
| Chronic | Long term, or repeated exposure of isopropanol may cause inco-ordi Repeated inhalation exposure to isopropanol may produce sleepines effects only at exposure levels that produce toxic effects in adult anin There are inconclusive reports of human sensitisation from skin conta Prolonged or continuous skin contact with the liquid may cause defat WARNING: Aerosol containers may present pressure related hazard | s, inco-ordination and liver degeneration. Animal data show developmental nals. Isopropanol does not cause genetic damage. acts with isopropanol. ting with drying, cracking, irritation and dermatitis following. | | | |
| | тохісітү | IRRITATION | | | |
| D-100 Aerosol Developer | D-100 Aerosol Developer Not Available Not Available | | | | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | | | |
| isopropanol | Dermal (rabbit) LD50: 12800 mg/kg ^[2] | Eye (rabbit): 10 mg - moderate | | | |
| | Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Eye (rabbit): 100 mg - SEVERE | | | | |

| | Oral (Mouse) LD50; 3600 mg/kg ^[2] | Eye (rabbit): 100mg/24hr-moderate | | |
|------------------------|--|--|--|--|
| | | Skin (rabbit): 500 mg - mild | | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION | | |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye: no adverse effect observed (not irritating) ^[1] | | |
| talc | Inhalation(Rat) LC50; >2.1 mg/l4h ^[1] | Skin (human): 0.3 mg/3d-l mild | | |
| | Oral (Rat) LD50; >5000 mg/kg ^[1] | Skin: no adverse effect observed (not irritating) ^[1] | | |
| | тохісіту | IRRITATION | | |
| hydrocarbon propellant | Inhalation(Rat) LC50; 658 mg/l4h ^[2] Not Available | | | |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances | | | |

| Respiratory or Skin sensitisation Mutagenicity | x x | STOT - Repeated Exposure Aspiration Hazard | × × | | |
|--|--|--|--|--|--|
| Serious Eye Damage/Irritation | * | STOT - Single Exposure | * | | |
| Skin Irritation/Corrosion | × | Reproductivity | × | | |
| Acute Toxicity | ✓ | Carcinogenicity | × | | |
| TALC & HYDROCARBON PROPELLANT | No significant acute toxicological data identified in litera | ture search. | | | |
| ISOPROPANOL & TALC | Asthma-like symptoms may continue for months or eve known as reactive airways dysfunction syndrome (RAD criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a doc airflow pattern on lung function tests, moderate to seve lymphocytic inflammation, without eosinophilia. RADS (the concentration of and duration of exposure to the irri The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limite | S) which can occur after exposure to evious airways disease in a non-atop umented exposure to the irritant. Oth re bronchial hyperreactivity on meth or asthma) following an irritating inh tating substance. | b high levels of highly irritating compound. Main bic individual, with sudden onset of persistent ner criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal | | |
| HYDROCARBON PROPELLANT | inhalation of the gas | | | | |
| TALC | The overuse of talc in nursing infants has resulted in respiratory damage causing fluid in the lungs and lung inflammation which may lead to death within hours of inhalation. Long-term exposure can also cause a variety of respiratory symptoms. | | | | |
| ISOPROPANOL | Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled. Intentional swallowing is common particularly among alcoholics or suicide victims and also leads to fainting, breathing difficulty, nausea, vomiting and headache. 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. | | | | |

SECTION 12 Ecological information

Toxicity

| D-100 Aerosol Developer | Endpoint | Test Duration (hr) | Species | | Value | Source |
|-------------------------|------------------|--------------------|-------------------------------|--|--------------|------------------|
| | Not Available | Not Available | Not Available | Not Available Not Available Av | | Not Available |
| | Endpoint | Test Duration (hr) | Species | | Value | Source |
| | EC50(ECx) | 24h | Algae or other aquatic plants | | 0.011mg/L | 4 |
| isopropanol | LC50 | 96h | Fish | Fish 4200mg | | 4 |
| | EC50 | 72h | Algae or other aquatic plants | Algae or other aquatic plants >1000mg | | 1 |
| | EC50 | 48h | Crustacea | Crustacea 75 | | 4 |
| | EC50 | 96h | Algae or other aquatic plants | | >1000mg/l | 1 |
| | Endpoint | Test Duration (hr) | Species | Va | alue | Sourc |
| (a). | NOEC(ECx) | 720h | Algae or other aquatic plants | 91 | 8.089mg/l | 2 |
| talc | LC50 | 96h | Fish | 89 | 9581.016mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | Algae or other aquatic plants 7202.7mg/l | | 2 |
| | Endpoint | Test Duration (hr) | Species | | Value | Sourc |
| hydrocarbon propellant | 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 |
| 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 |

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|-------------|---------------------------|--------------------------|
| isopropanol | LOW (Half-life = 14 days) | LOW (Half-life = 3 days) |
| | | |

| Bioaccumulative potential | |
|---------------------------|---------------------|
| Ingredient | Bioaccumulation |
| isopropanol | LOW (LogKOW = 0.05) |
| | |
| Mobility in soil | |
| Ingredient | Mobility |

SECTION 13 Disposal considerations

| Waste treatment methods | | | | |
|------------------------------|--|--|--|--|
| Product / Packaging disposal | 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. | | | |

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

Disposal Requirements

isopropanol

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

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. Only dispose to the environment if a tolerable exposure limit has been set for the substance.

SECTION 14 Transport information

Labels Required



HIGH (KOC = 1.06)

 Marine Pollutant
 NO

 HAZCHEM
 Not Applicable

Land transport (UN)

| UN number | 950 | | | |
|------------------------------|--|--|--|--|
| UN proper shipping name | AEROSOLS | | | |
| Transport hazard class(es) | Class 2.1 Subrisk Not Applicable | | | |
| Packing group | Not Applicable | | | |
| Environmental hazard | Not Applicable | | | |
| Special precautions for user | Special provisions 63; 190; 277; 327; 344; 381 Limited quantity 1000ml | | | |

Air transport (ICAO-IATA / DGR)

UN number 1950

| UN proper shipping name | Aerosols, flammable | Aerosols, flammable | | | |
|------------------------------|--|------------------------------------|--|--|--|
| Transport hazard class(es) | ICAO/IATA Class ICAO / IATA Subrisk ERG Code | 2.1 Not Applicable 10L | | | |
| Packing group | Not Applicable | | | | |
| Environmental hazard | Not Applicable | Not Applicable | | | |
| Special precautions for user | | Qty / Pack Packing Instructions | 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 | | |
| Transport hazard class(es) | IMDG Class 2.1 IMDG Subrisk Not Applicable | | |
| Packing group | Not Applicable | | |
| Environmental hazard | Not Applicable | | |
| Special precautions for user | EMS NumberF-D, S-USpecial provisions63 190 277 327 344 381 959Limited Quantities1000 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 |
|------------------------|---------------|
| isopropanol | Not Available |
| talc | Not Available |
| hydrocarbon propellant | Not Available |

Transport in bulk in accordance with the ICG Code

| Product name | Ship Type |
|------------------------|---------------|
| isopropanol | Not Available |
| talc | Not Available |
| hydrocarbon propellant | Not Available |

SECTION 15 Regulatory information

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

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

| HSR Number | Group Standard | |
|------------|--|--|
| HSR002515 | Aerosols Flammable Group Standard 2020 | |
| HSR002552 | Cosmetic Products Group Standard 2020 | |

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

isopropanol is found on the following regulatory lists

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

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) \mbox{Act} - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

talc is found on the following regulatory lists

| Chemical Footprint Project - Chemicals of High Concern List | International WHO List of Proposed Occupational Exposure Limit (OEL) Values for |
|--|---|
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC | Manufactured Nanomaterials (MNMS) |
| Monographs | New Zealand Inventory of Chemicals (NZIoC) |
| International Agency for Research on Cancer (IARC) - Agents Classified by the IARC | New Zealand Workplace Exposure Standards (WES) |
| Monographs - Group 2B: Possibly carcinogenic to humans | |
| The second second second second | |
| hydrocarbon propellant is found on the following regulatory lists | |
| Chemical Footprint Project - Chemicals of High Concern List | New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification |
| New Zealand Approved Hazardous Substances with controls | of Chemicals - Classification Data |
| | |
| New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification | New Zealand Inventory of Chemicals (NZIoC) |

Hazardous Substance Location

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

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

New Zealand Workplace Exposure Standards (WES)

Certified Handler

of Chemicals

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

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

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

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

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

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory | Status |
|--|---|
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (isopropanol; talc; hydrocarbon propellant) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| 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 | 10/12/2020 |
|---------------|------------|
| Initial Date | 05/11/2009 |

SDS Version Summary

| Version | Date of Update | Sections Updated | |
|---------|----------------|--|--|
| 8.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification | |
| 9.1 | 10/12/2020 | Acute Health (inhaled) | |

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 This document is copyright.

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