

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

| Р | rod | uct | lde | ntif | ier |
|---|-----|-----|-----|------|-----|
| | | | | | |

| Product name | DUBL-CHEK CP-2 Aerosol |
|-------------------------------|------------------------|
| 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 | White paint. Application is by spray atomisation from a hand held aerosol pack |
|--------------------------|--|
|--------------------------|--|

Details of the supplier of the safety data sheet

| Registered company name | Euromarc |
|-------------------------|-----------------------------|
| Address | 203 Glover Road Hawera 4640 |
| Telephone | 0800 278 600 |
| Fax | |
| Website | euromarc.co.nz |
| Email | sales@euromarc.co.nz |

Emergency telephone number

| Association / Organisation | CHEMCALL |
|-----------------------------------|--------------|
| Emergency telephone numbers | 0800 243 622 |
| Other emergency telephone numbers | 111 |

Once connected and if the message is not in your prefered language then please dial ${\bf 01}$

SECTION 2 Hazards identification

Classification of the substance or mixture

| Classification ^[1] | Acute Toxicity (Oral) Category 4, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 1, Specific Target Organ Toxicity - Single Exposure Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 3, Hazardous to Terrestrial Vertebrates |
|--|--|
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |
| Determined by Chemwatch using GHS/HSNO criteria | 6.1D (oral), 6.4A, 6.8A, 6.9A, 6.9B, 9.1C, 9.3C |

Label elements

Hazard pictogram(s)

| Signal word Danger | |
|--------------------|--|
|--------------------|--|

Hazard statement(s)

| H302 | Harmful if swallowed. |
|------|---|
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360 | May damage fertility or the unborn child. |

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| H371 | May cause damage to organs. |
|------|---|
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H433 | Hazardous to terrestrial vertebrates. |

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. |
|------|--|
| P260 | Do not breathe mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P270 | Do not eat, drink or smoke when using this product. |

Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|----------------|--|
| P308+P311 | IF exposed or concerned: Call a POISON CENTER/doctor/physician/first aider. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. |
| 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

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | |
|-------------|--|---|--|
| 67-64-1 | 30-60 | <u>acetone</u> | |
| 13463-67-7 | 10-30 | titanium dioxide | |
| 78-93-3 | <10 | methyl ethyl ketone | |
| 112945-52-5 | <10 | silica amorphous, fumed | |
| 28262-63-7 | <10 | methyl methacrylate/ n-BMA/ MAA copolymer | |
| 7631-86-9 | <10 | 10 silica amorphous | |
| 21645-51-2 | <10 | aluminium hydroxide | |
| 9002-88-4 | <1 | polyethylene | |
| 398475-96-2 | <1 <u>ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate</u> | | |
| 1314-23-4 | <1 | zirconium dioxide | |
| 80-62-6 | <0.1 | methyl methacrylate | |
| 97-88-1 | <0.1 | n-butyl methacrylate | |
| 68476-85-7. | 10-30 | hydrocarbon propellant | |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available | | |

SECTION 4 First aid measures

| Description of first aid measur | es |
|---------------------------------|--|
| Eye Contact | If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye 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 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 | 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

Treat symptomatically

For acute or short term repeated exposures to acetone:

- ▶ Symptoms of acetone exposure approximate ethanol intoxication.
- About 20% is expired by the lungs and the rest is metabolised. Alveolar air half-life is about 4 hours following two hour inhalation at levels near the Exposure Standard; in overdose, saturable metabolism and limited clearance, prolong the elimination half-life to 25-30 hours.
- Fig. There are no known antidotes and treatment should involve the usual methods of decontamination followed by supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Management:

Measurement of serum and urine acetone concentrations may be useful to monitor the severity of ingestion or inhalation.

Inhalation Management:

- Maintain a clear airway, give humidified oxygen and ventilate if necessary.
- If respiratory irritation occurs, assess respiratory function and, if necessary, perform chest X-rays to check for chemical pneumonitis.
- Consider the use of steroids to reduce the inflammatory response.
- ► Treat pulmonary oedema with PEEP or CPAP ventilation.

Dermal Management:

- PRemove any remaining contaminated clothing, place in double sealed, clear bags, label and store in secure area away from patients and staff.
- Irrigate with copious amounts of water.
- An emollient may be required.

Eye Management:

- Irrigate thoroughly with running water or saline for 15 minutes.
- Stain with fluorescein and refer to an ophthalmologist if there is any uptake of the stain.

Oral Management:

- ► No GASTRIC LAVAGE OR EMETIC
- ► Encourage oral fluids.

Systemic Management:

- Monitor blood glucose and arterial pH.
- Ventilate if respiratory depression occurs.
- If patient unconscious, monitor renal function.
- ▶ Symptomatic and supportive care

The Chemical Incident Management Handbook:

Guy's and St. Thomas' Hospital Trust, 2000

BIOLOGICAL EXPOSURE INDEX

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

Determinant Sampling Time Index Comments Acetone in urine Fnd of shift 50 mg/L NS

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

SECTION 5 Firefighting measures

Extinguishing media

SMALL FIRE:

► Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

Special hazards arising from the substrate or mixture

Fire Incompatibility

| 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. | | | |

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

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

carbon dioxide (CO2) metal oxides

other pyrolysis products typical of burning organic material.

See section 8

Continued...

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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 | 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. |

Conditions for safe storage, including any incompatibilities

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

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) | acetone | Acetone | 500 ppm / 1185 mg/m3 | 2375 mg/m3 / 1000 ppm | Not Available | (bio)-Exposure can also be estimated by biological monitoring. |
| New Zealand Workplace Exposure Standards (WES) | titanium dioxide | Titanium dioxide | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | methyl ethyl ketone | MEK (Methyl ethyl ketone, 2-Butanone) | 150 ppm / 445 mg/m3 | 890 mg/m3 / 300 ppm | Not Available | (bio)-Exposure can also be estimated by biological monitoring. |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous, fumed | Particulates not otherwise classified respirable dust | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous, fumed | Respirable dust (not otherwise classified) | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous, fumed | Particulates not otherwise classified | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous, fumed | Inhalable dust (not otherwise classified) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Silica-Amorphous: Diatomaceous earth (not calcined) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Silica-Amorphous: Precipitated silica | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Silica-Amorphous: Silica gel | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Silica fume respirable dust | 2 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Silica gel (Silica-Amorphous) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Silica fused respirable dust | 0.2 mg/m3 | Not Available | Not Available | Not Available |

Continued...

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| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---|---------------------------|---|--------------------------|------------------------|------------------|------------------------|
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Precipitated silica (Silica- Amorphous) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | aluminium hydroxide | Inhalable dust (not otherwise classified) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | aluminium hydroxide | Particulates not otherwise classified respirable dust | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | aluminium hydroxide | Respirable dust (not otherwise classified) | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | aluminium hydroxide | Particulates not otherwise classified | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | polyethylene | Particulates not otherwise classified | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | polyethylene | Respirable dust (not otherwise classified) | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | polyethylene | Inhalable dust (not otherwise classified) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | polyethylene | Particulates not otherwise classified respirable dust | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | zirconium dioxide | Inhalable dust (not otherwise classified) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | zirconium dioxide | Zirconium and compounds, as Zr | 5 mg/m3 | 10 mg/m3 | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | zirconium dioxide | Particulates not otherwise classified respirable dust | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | zirconium dioxide | Respirable dust (not otherwise classified) | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | zirconium dioxide | Particulates not otherwise classified | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | methyl methacrylate | Methyl methacrylate | 50 ppm / 208 mg/m3 | 416 mg/m3 / 100 ppm | Not Available | (skin)-Skin absorption |
| New Zealand Workplace Exposure Standards (WES) | hydrocarbon propellant | LPG (Liquefied petroleum gas) | 1000 ppm / 1800 mg/m3 | Not Available | Not Available | Not Available |

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|-------------------------|---------------|---------------|---------------|
| acetone | Not Available | Not Available | Not Available |
| titanium dioxide | 30 mg/m3 | 330 mg/m3 | 2,000 mg/m3 |
| methyl ethyl ketone | Not Available | Not Available | Not Available |
| silica amorphous, fumed | 18 mg/m3 | 100 mg/m3 | 630 mg/m3 |
| silica amorphous | 18 mg/m3 | 200 mg/m3 | 1,200 mg/m3 |
| silica amorphous | 18 mg/m3 | 100 mg/m3 | 630 mg/m3 |
| silica amorphous | 120 mg/m3 | 1,300 mg/m3 | 7,900 mg/m3 |
| silica amorphous | 45 mg/m3 | 500 mg/m3 | 3,000 mg/m3 |
| silica amorphous | 18 mg/m3 | 740 mg/m3 | 4,500 mg/m3 |
| aluminium hydroxide | 8.7 mg/m3 | 73 mg/m3 | 440 mg/m3 |
| polyethylene | 16 mg/m3 | 170 mg/m3 | 1,000 mg/m3 |
| zirconium dioxide | 14 mg/m3 | 110 mg/m3 | 680 mg/m3 |
| methyl methacrylate | Not Available | Not Available | Not Available |
| n-butyl methacrylate | 19 mg/m3 | 210 mg/m3 | 1,300 mg/m3 |
| hydrocarbon propellant | 65,000 ppm | 2.30E+05 ppm | 4.00E+05 ppm |

| Ingredient | Original IDLH | Revised IDLH |
|---|---------------|---------------|
| acetone | 2,500 ppm | Not Available |
| titanium dioxide | 5,000 mg/m3 | Not Available |
| methyl ethyl ketone | 3,000 ppm | Not Available |
| silica amorphous, fumed | Not Available | Not Available |
| methyl methacrylate/ n-BMA/ MAA copolymer | Not Available | Not Available |
| silica amorphous | 3,000 mg/m3 | Not Available |
| aluminium hydroxide | Not Available | Not Available |
| polyethylene | Not Available | Not Available |
| ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate | Not Available | Not Available |
| zirconium dioxide | 25 mg/m3 | Not Available |

| Ingredient | Original IDLH | Revised IDLH |
|------------------------|---------------|---------------|
| methyl methacrylate | 1,000 ppm | Not Available |
| n-butyl methacrylate | Not Available | Not Available |
| hydrocarbon propellant | 2,000 ppm | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|---|--|----------------------------------|
| ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate | E | ≤ 0.1 ppm |
| n-butyl methacrylate | E | ≤ 0.1 ppm |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to range of exposure concentrations that are expected to protect worker health. | |

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.

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

- ▶ No special equipment needed when handling small quantities.
- OTHERWISE:
- Hands/feet protection
- 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

No special equipment needed when handling small quantities.

OTHERWISE:

- Overalls.
- Skin cleansing cream. Eyewash unit.
- Other protection
- Do not spray on hot surfaces.
- The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.
- Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.

BRETHERICK: Handbook of Reactive Chemical Hazards.

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:

DUBL-CHEK CP-2 Aerosol

| Material | СРІ |
|------------------|-----|
| PE/EVAL/PE | A |
| TEFLON | В |
| 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 |
| PVA | С |

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|-----------------------------|
| up to 10 x ES | AX-AUS P2 | - | AX-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | AX-AUS / Class 1 P2 | - |
| up to 100 x ES | - | AX-2 P2 | AX-PAPR-2 P2 ^ |

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

Continued...

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| PVC | С |
|------------------|---|
| PVDC/PE/PVDC | С |
| SARANEX-23 | С |
| SARANEX-23 2-PLY | С |
| VITON/NEOPRENE | С |

^{*} CPI - Chemwatch Performance Index

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.

- 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

SECTION 9 Physical and chemical properties

| Appearance | White highly flammable liquid with a sweetish solven | t odour; does not mix with water. | |
|--|--|---|----------------|
| 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 |
| nitial 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 (%) | 9.5 propellant | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | 1.8 propellant | Volatile Component (%vol) | >60 |
| Vapour pressure (kPa) | UNDER PRESSURE | Gas group | Not Available |
| Solubility in water | Immiscible | 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 el | fects |
|---------------------------------|--|
| 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. If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal. Effects of exposure to acetone by inhalation include central nervous system depression, light-headedness, unintelligible speech, inco-ordination, stupor, low blood pressure, fast heart rate, metabolic acidosis, high blood sugar and ketosis. Rarely, there may be convulsions and death of kidney tubules. |
| Ingestion | Accidental ingestion of the material may be damaging to the health of the individual. Not normally a hazard due to physical form of product. Ingestion may result in nausea, abdominal irritation, pain and vomiting |

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

| Skin Contact | exposure can cause contact dermatitis which is characteris Repeated exposure may cause skin cracking, flaking or dry Open cuts, abraded or irritated skin should not be exposed | ring following normal handling and use. to this material rasions or lesions, may produce systemic injury with harmful effects. Examine the skin |
|--|--|---|
| Еуе | There is evidence that material may produce eye irritation i inflammation may be expected with pain. | n some persons and produce eye damage 24 hours or more after instillation. Severe |
| Chronic | Workers exposed to acetone for long periods showed inflar strength. Exposure to acetone may enhance the liver toxici | nmation of the airways, stomach and small bowel, attacks of giddiness and loss of ty of chlorinated solvents. |
| | TOXICITY | IRRITATION |
| DUBL-CHEK CP-2 Aerosol | Dermal (Rabbit) LD50: >3160 mg/kg ^[2] | Not Available |
| | Oral (Rat) LD50: >5000 mg/kg ^[2] | |
| | TOXICITY | 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 | Oral (Nat) 2500, 0000 Highly | 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] |
| | TOXICITY | IRRITATION |
| | dermal (hamster) LD50: >=10000 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] |
| titanium dioxide | Inhalation(Rat) LC50; >2.28 mg/l4h ^[1] | Skin (human): 0.3 mg /3D (int)-mild * |
| | Oral (Rat) LD50; >=2000 mg/kg ^[1] | Skin: no adverse effect observed (not irritating)[1] |
| | TOVIOLTY | |
| | TOXICITY Description of the property of the p | IRRITATION Eye (human): 350 ppm -irritant |
| mathyl athyl katawa | Dermal (rabbit) LD50: 6480 mg/kg ^[2] | Eye (rabbit): 80 mg - irritant |
| methyl ethyl ketone | Inhalation(Mouse) LC50; 32 mg/L4h ^[2] | |
| | Oral (Rat) LD50; 2054 mg/kg ^[1] | Skin (rabbit): 402 mg/24 hr - mild Skin (rabbit):13.78mg/24 hr open |
| | TOXICITY | IRRITATION |
| silica amorphous, fumed | Inhalation(Rat) LC50; 0.45 mg/L4h ^[2] | Not Available |
| onica amorphous, ramou | Oral (Rat) LD50; >5000 mg/kg ^[2] | |
| methyl methacrylate/ n-BMA/ | TOXICITY | IRRITATION |
| MAA copolymer | Not Available | Not Available |
| | TOXICITY | IRRITATION |
| | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): non-irritating * |
| -111 | Inhalation(Rat) LC50; >0.139 mg/L4h ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| silica amorphous | Oral (Rat) LD50; >1000 mg/kg ^[1] | Skin (rabbit): non-irritating * |
| | Oral (Nat) LD30, >1000 Hig/kg: 3 | Skin: no adverse effect observed (not irritating) ^[1] |
| | TOXICITY | IRRITATION |
| aluminium hydroxide | Inhalation(Rat) LC50; >2.3 mg/l4h ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| alullilliulli liyuloxide | Oral (Rat) LD50; >2.00 mg/kg ^[1] | Skin: no adverse effect observed (not irritating)[1] |
| | , , , | |
| | TOXICITY | IRRITATION |
| polyethylene | dermal (rat) LD50: >2000 mg/kg ^[1] | Not Available |
| | Oral (Rat) LD50; >2000 mg/kg ^[1] | |
| ethylenediamine/ aziridine, phosphated, ethoxylate, | TOXICITY | IRRITATION |
| propoxylate | Oral (Rat) LD50; >5000 mg/kg ^[2] | Not Available |
| | TOXICITY | IRRITATION |
| zirconium dioxide | Inhalation(Rat) LC50; >4.3 mg/l4h ^[1] | Not Available |
| | Oral (Rat) LD50; >5000 mg/kg ^[1] | |
| | l | |

| | L | | | | | |
|--|---|---|--|--|--|--|
| | TOXICITY | IRRITATION | | | | |
| methyl methacrylate | Dermal (rabbit) LD50: >5000 mg/kg ^[2] | Eye (rabbit): 150 mg | | | | |
| monly mondoryate | Inhalation(Rat) LC50; 29.8 mg/l4h ^[1] | Skin (rabbit): 10000 mg/kg (open) | | | | |
| | Oral (Rat) LD50; 7872 mg/kg ^[2] | | | | | |
| | TOXICITY | IRRITATION | | | | |
| | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] | | | | |
| n-butyl methacrylate | Inhalation(Rat) LC50; 4910 ppm4h ^[2] | Skin (rabbit): 10000 mg/kg (open) | | | | |
| | Oral (Rat) LD50; 22600 mg/kg ^[2] | Skin: adverse effect observed (irritating) ^[1] | | | | |
| | TOXICITY | IRRITATION | | | | |
| hydrocarbon propellant | Inhalation(Rat) LC50; 658 mg/l4h ^[2] | Not Available | | | | |
| Legend: | Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effective | es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise ect of chemical Substances | | | | |
| | l | | | | | |
| ACETONE | * | itant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal ties in humans have shown that exposure to acetone at a level of 2375 mg/cubic | | | | |
| TITANIUM DIOXIDE | producing mutation. Exposure to titanium dioxide is via inhalation, swallowing or dysfunction of the lungs and immune system. Absorption by outermost layer of the skin, suggesting that healthy skin may cases have been reported in experimental animals. | IUCLID aboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of roducing mutation. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing ysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It penetrated only the utermost layer of the skin, suggesting that healthy skin may be an effective barrier. There is no substantive data on genetic damage, though | | | | |
| | · | on Croup 2P: Pennibly Corningrapio to Humano | | | | |
| METHYL ETHYL KETONE | WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. Methyl ethyl ketone is considered to have a low order of toxicity; however, methyl ethyl ketone is often used in combination with other solvents and the mixture may have greater toxicity than either solvent alone. Combinations of n-hexane with methyl ethyl ketone, and also methyl n-butyl ketone with methyl ethyl ketone may result in an increased in peripheral neuropathy, a progressive disorder of the nerves of the extremities. Combinations with chloroform also show an increase in toxicity. | | | | | |
| SILICA AMORPHOUS, FUMED | For silane, dichloro-methyl-, reaction products with silica: Acute oral toxicity is very low for treated silica. Animals who inhaled these substances recovered from inflammatory changes in the airway when exposure ended. Repeated inhalation in animals caused inflammation and scarring of the lungs with enlarged lymph nodes. Treated silica does not cause mutations or genetic damage and has not been shown to cause cancer. At very high doses, animals tested showed reduced body weight and appetite. | | | | | |
| SILICA AMORPHOUS | Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS] | | | | | |
| POLYETHYLENE | polyethylene pyrolyzate For poly-alpha-olefins (PAOs): PAOs are highly branched, isoparaffinic chemicals produced polyalphaolefin mixture is then distilled into appropriate prod In existing data, there appears to be no data to show that the literature that alkanes with 30 or more carbon atoms are unli make it unlikely that significant absorption into the body will Inclusion of polyethylene in the diet of rats at 8 g/kg/day did | not result in treatment-related effects. Polyethylene implanted into rats and mice has | | | | |
| METHYL METHACRYLATE | reportedly caused local tumorigenic activity at doses of 33 to 2120 mg/kg, but the relevance to human exposure is not certain. Inhalation (human) TCLo: 60 mg/m3(15 ppm) [* Manuf. Rohm & Haas] MMA is absorbed after inhalation, oral intake and less readily through the skin. Following inhalation it is partly deposited in the airway where it is metabolised by local enzymes. Acute toxicity is low. Skin, eye and airway irritation can result as well as degeneration of the smell function of the nose. Long term exposure may result in damage to the liver, kidney, brain, spleen and bone marrow. | | | | | |
| N-BUTYL METHACRYLATE | | s (n-BMA): These have low levels of toxicity orally, through skin contact or by en shown to cause genetic damage or cancer, and there is little concern about them | | | | |
| HYDROCARBON PROPELLANT | inhalation of the gas | | | | | |
| ACETONE & TITANIUM DIOXIDE & METHYL ETHYL KETONE | The material may cause skin irritation after prolonged or rep vesicles, scaling and thickening of the skin. | eated exposure and may produce on contact skin redness, swelling, the production or | | | | |
| TITANIUM DIOXIDE & METHYL ETHYL KETONE & ZIRCONIUM DIOXIDE & METHYL METHACRYLATE & N-BUTYL METHACRYLATE | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to | | | | | |
| TITANIUM DIOXIDE & METHYL METHACRYLATE/ N-BMA/ MAA COPOLYMER & ALUMINIUM HYDROXIDE & ZIRCONIUM DIOXIDE & HYDROCARBON | No significant acute toxicological data identified in literature search. | | | | | |

| PROPELLANT | | | | |
|---|---|-----------------|---|--|
| SILICA AMORPHOUS, FUMED & SILICA AMORPHOUS | For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the eye and drying/cracking of the skin. When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. | | | |
| SILICA AMORPHOUS & POLYETHYLENE & METHYL METHACRYLATE | The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. | | | |
| METHYL METHACRYLATE & N-BUTYL METHACRYLATE | o , | | | |
| Acute Toxicity | ~ | Carcinogenicity | × | |

Legend:

Reproductivity

Aspiration Hazard

X

STOT - Single Exposure

STOT - Repeated Exposure

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 Ecological information

Skin Irritation/Corrosion

Respiratory or Skin

sensitisation Mutagenicity ×

Serious Eye Damage/Irritation

Toxicity

| | Endpoint | Test Duration (hr) | Species | | Value | Source |
|--|------------------|--------------------|-------------------------------|--|------------------|-----------------|
| DUBL-CHEK CP-2 Aerosol | Not Available | Not Available | Not Available | | Not Available | Not Availabl |
| | Endpoint | Test Duration (hr) | Species | Valu | ie | Sourc |
| | NOEC(ECx) | 12h | Fish | 0.00 | 1mg/L | 4 |
| acetone | LC50 | 96h | Fish | 374 | 1.6-5000.7mg/L | 4 |
| | EC50 | 48h | Crustacea | 6098 | 3.4mg/L | 5 |
| | EC50 | 96h | Algae or other aquatic plants | 9.87 | 3-27.684mg/l | 4 |
| titanium dioxide | Endpoint | Test Duration (hr) | Species | | Value | Sourc |
| | BCF | 1008h | Fish | | <1.1-9.6 | 7 |
| | NOEC(ECx) | 504h | Crustacea | | 0.02mg/l | 4 |
| | LC50 | 96h | Fish | | 1.85-3.06mg/l | 4 |
| | EC50 | 72h | Algae or other aquatic plants | | 3.75-7.58mg/l | 4 |
| | EC50 | 48h | Crustacea | | 1.9mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | | 179.05mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | | Value | Source |
| | NOEC(ECx) | 48h | Crustacea | | 68mg/l | 2 |
| | LC50 | 96h | Fish | | >324mg/L | 4 |
| methyl ethyl ketone | EC50 | 72h | Algae or other aquatic plants | Algae or other aquatic plants 1972mg/l | | 2 |
| | EC50 | 48h | Crustacea | | 308mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | | >500mg/l | 4 |
| -11: | Endpoint | Test Duration (hr) | Species | | Value | Source |
| silica amorphous, fumed | NOEC(ECx) | 24h | Crustacea | | >=10000mg/l | 1 |
| | Endpoint | Test Duration (hr) | Species | | Value | Source |
| nethyl methacrylate/ n-BMA/ MAA copolymer | Not Available | Not Available | Not Available | | Not Available | Not Availab |

| | Endpoint | Test Duration (hr) | Species | Value | Sour |
|----------------------------|-----------------------|------------------------|---|--------------------|--------|
| silica amorphous | EC0(ECx) | 24h | Crustacea | >=10000mg/l | 1 |
| | LC50 | 96h | Fish | 1033.016mg/l | 2 |
| | EC50 | 72h | Algae or other aquatic plants | 14.1mg/l | 2 |
| | EC50 | 48h | Crustacea | >86mg/I | |
| | EC50 | 96h | Algae or other aquatic plants | 217.576mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Sour |
| | LC50 | 96h | Fish | 0.57mg/l | 2 |
| aluminium hydroxide | EC50 | 48h | Crustacea | >0.065mg/l | 4 |
| · | NOEC(ECx) | 72h | Algae or other aquatic plants | >100mg/l | 1 |
| | EC50 | 96h | Algae or other aquatic plants | 0.46mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| polyethylene | Not | | | Not | Not |
| | Available | Not Available | Not Available | Available | Availa |
| thylenediamine/ aziridine, | Endpoint | Test Duration (hr) | Species | Value | Sourc |
| phosphated, ethoxylate, | Not | Not Available | Not Available | Not | Not |
| propoxylate | Available | | | Available | Availa |
| | Endpoint | Test Duration (hr) | Species | Value | Sour |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | atic plants 32mg/l | |
| zirconium dioxide | LC50 | 96h | Fish | >100mg/l | |
| | EC50 | 72h | Algae or other aquatic plants | >100mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Sour |
| | EC50 | 48h | Crustacea | 69mg/l | 1 |
| | EC50 | 96h | Algae or other aquatic plants | 170mg/l | 1 |
| methyl methacrylate | EC0(ECx) | 48h | Crustacea | 48mg/l | 1 |
| | LC50 | 96h | Fish | >79mg/l | 2 |
| | EC50 | 72h | Algae or other aquatic plants | >110mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Soui |
| | NOEC(ECx) | 48h | Crustacea | 23mg/l | 1 |
| | LC50 | 96h | Fish | 5.57mg/l | 2 |
| n-butyl methacrylate | EC50 | 72h | Algae or other aquatic plants | 31.2mg/l | 2 |
| | EC50 | 48h | Crustacea | 32mg/l | 1 |
| | EC50 | 96h | Algae or other aquatic plants | 57mg/l | 1 |
| | | Took Direction (low) | · | | Sour |
| | Endpoint EC50(ECx) | Test Duration (hr) 96h | Species Algae or other aquatic plants | Value 7.71mg/l | 2 |
| | | | | | |
| hadra and an U.S. | 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 |
| Legend: | Ecotox databas | | HA Registered Substances - Ecotoxicological Informat Aquatic Hazard Assessment Data 6. NITE (Japan) - Bi | | |

DO NOT discharge into sewer or waterways.
For Acetone:
log Kow: -0.24;
Half-life (hr) air: 312-1896;
Half-life (hr) H2O surface water: 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07 ThOD: 2.2BCF: 0.69.

 $\label{thm:environmental} \textbf{Environmental Fate: The relatively long half-life allows ace tone to be transported long distances from its emission source.}$

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. Air Quality Standards: none available.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air | |
|------------|---------------------------|----------------------------------|--|
| acetone | LOW (Half-life = 14 days) | MEDIUM (Half-life = 116.25 days) | |

| Ingredient | Persistence: Water/Soil | Persistence: Air | |
|----------------------|---------------------------|------------------------------|--|
| titanium dioxide | HIGH | HIGH | |
| methyl ethyl ketone | LOW (Half-life = 14 days) | LOW (Half-life = 26.75 days) | |
| silica amorphous | LOW | LOW | |
| polyethylene | LOW | LOW | |
| zirconium dioxide | HIGH | HIGH | |
| methyl methacrylate | LOW | LOW | |
| n-butyl methacrylate | LOW | LOW | |

Bioaccumulative potential

| Ingredient | Bioaccumulation | | |
|----------------------|-----------------------|--|--|
| acetone | LOW (BCF = 0.69) | | |
| titanium dioxide | LOW (BCF = 10) | | |
| methyl ethyl ketone | LOW (LogKOW = 0.29) | | |
| silica amorphous | LOW (LogKOW = 0.5294) | | |
| polyethylene | LOW (LogKOW = 1.2658) | | |
| zirconium dioxide | LOW (LogKOW = 1.429) | | |
| methyl methacrylate | LOW (BCF = 6.6) | | |
| n-butyl methacrylate | LOW (BCF = 114) | | |

Mobility in soil

| Ingredient | Mobility | | |
|----------------------|----------------------|--|--|
| acetone | HIGH (KOC = 1.981) | | |
| titanium dioxide | LOW (KOC = 23.74) | | |
| methyl ethyl ketone | MEDIUM (KOC = 3.827) | | |
| silica amorphous | LOW (KOC = 23.74) | | |
| polyethylene | LOW (KOC = 14.3) | | |
| zirconium dioxide | LOW (KOC = 23.74) | | |
| methyl methacrylate | LOW (KOC = 10.14) | | |
| n-butyl methacrylate | LOW (KOC = 63.6) | | |

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

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



Marine Pollutant

HAZCHEM

Not Applicable

Land transport (UN)

| Euro transport (ON) | | |
|-------------------------|----------|--|
| UN number | 1950 | |
| UN proper shipping name | AEROSOLS | |

Continued...

Dubl Chek CP-2

| Transport hazard class(es) | Class 2.1 Subrisk Not | | | |
|------------------------------|--|--|--|--|
| 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)

| | <u>'</u> | | | |
|------------------------------|--|-----------------------|---|--|
| UN number | 1950 | | | |
| UN proper shipping name | Aerosols, flammable | | | |
| Transport hazard class(es) | ICAO/IATA Class ICAO / IATA Subrisk ERG Code | 2.1 Not Applicable | | |
| Packing group | Not Applicable | | | |
| Environmental hazard | Not Applicable | | | |
| Special precautions for user | Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack | | A145 A167 A802 203 150 kg 203 75 kg | |
| | Passenger and Cargo Limited Quantity Packing Instructions | | Y203 | |
| | Passenger and Cargo Limited Maximum Qty / Pack | | 30 kg G | |
| | | | | |

Sea transport (IMDG-Code / GGVSee)

| UN number | 1950 | 1950 | | |
|------------------------------|--|---|--|--|
| UN proper shipping name | AEROSOLS | | | |
| Transport hazard class(es) | | 2.1 Not Applicable | | |
| Packing group | Not Applicable | | | |
| Environmental hazard | Not Applicable | | | |
| 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 |
|---|---------------|
| acetone | Not Available |
| titanium dioxide | Not Available |
| methyl ethyl ketone | Not Available |
| silica amorphous, fumed | Not Available |
| methyl methacrylate/ n-BMA/ MAA copolymer | Not Available |
| silica amorphous | Not Available |
| aluminium hydroxide | Not Available |
| polyethylene | Not Available |
| ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate | Not Available |
| zirconium dioxide | Not Available |
| methyl methacrylate | Not Available |
| n-butyl methacrylate | Not Available |
| hydrocarbon propellant | Not Available |

Transport in bulk in accordance with the ICG Code

| National Inventory | Status |
|-------------------------------|---|
| 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 | 21/04/2021 |
|---------------|------------|
| Initial Date | 24/07/2014 |

SDS Version Summary

| Version | Date of Update | Sections Updated | |
|---------|-------------------|--|--|
| 7.1 | 25/01/2021 | Appearance, Classification, Environmental | |
| 8.1 | 21/04/2021 | Acute Health (skin), Advice to Doctor, Classification, Disposal, Exposure Standard, Fire Fighter (fire/explosion hazard), First Aid (skin), Handling Procedure, Personal Protection (Respirator), Physical Properties, Spills (major), Storage (storage incompatibility) | |

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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TEL (+61 3) 9572 4700.

end of SDS

Dubl Chek CP-2 10 December 2021 | Page 14 of 16 Chemical Footprint Project - Chemicals of High Concern List

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

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for

Manufactured Nanomaterials (MNMS)

New Zealand Approved Hazardous Substances with controls

aluminium hydroxide is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Inventory of Chemicals (NZIoC)

polyethylene is found on the following regulatory lists

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

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

New Zealand Workplace Exposure Standards (WES)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

zirconium dioxide is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Approved Hazardous Substances with controls

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

methyl methacrylate is found on the following regulatory lists

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

New Zealand Approved Hazardous Substances with controls

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

n-butyl methacrylate is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

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

hydrocarbon propellant is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

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

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

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

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)

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

New Zealand Inventory of Chemicals (NZIoC)

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)

Hazardous Substance Location

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

| Hazard Class | Quantities |
|----------------|----------------|
| Not Applicable | Not Applicable |

Certified Handler

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

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

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

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

| Hazard Class | Gas (aggregate water capacity in mL) | Liquid (L) | Solid (kg) | Maximum quantity per package for each classification |
|----------------|--------------------------------------|----------------|----------------|--|
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory | Status |
|--|---|
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (acetone; methyl ethyl ketone; silica amorphous, fumed; methyl methacrylate/ n-BMA/ MAA copolymer; aluminium hydroxide; polyethylene; ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate; zirconium dioxide; methyl methacrylate; n-butyl methacrylate; hydrocarbon propellant) |

Continued...

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| National Inventory | Status | | |
|-------------------------------|---|--|--|
| China - IECSC | Yes | | |
| Europe - EINEC / ELINCS / NLP | No (methyl methacrylate/ n-BMA/ MAA copolymer; polyethylene; ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate) | | |
| Japan - ENCS | No (silica amorphous, fumed; ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate) | | |
| Korea - KECI | Yes | | |
| New Zealand - NZIoC | Yes | | |
| Philippines - PICCS | No (ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate) | | |
| USA - TSCA | No (ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate) | | |
| Taiwan - TCSI | Yes | | |
| Mexico - INSQ | No (methyl methacrylate/ n-BMA/ MAA copolymer; ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate) | | |
| Vietnam - NCI | Yes | | |
| Russia - FBEPH | No (methyl methacrylate/ n-BMA/ MAA copolymer; ethylenediamine/ aziridine, phosphated, ethoxylate, propoxylate) | | |
| 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 | 10/12/2021 |
|---------------|------------|
| Initial Date | 24/07/2014 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|---|
| 9.1 | 20/08/2021 | Classification change due to full database hazard calculation/update. |
| 10.1 | 10/12/2021 | Classification change due to full database hazard calculation/update. |

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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end of SDS

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