

CRC RTV Silicone Sealant CRC Industries (CRC Industries New Zealand)

Chemwatch: 63-5928

Version No: 5.1

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Chemwatch Hazard Alert Code: 2

Issue Date: **10/07/2024** Print Date: **10/09/2024** S.GHS.NZL.EN

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

Product Identifier

| Product name | CRC RTV Silicone Sealant |
|----------------------------------|--------------------------|
| Chemical Name | Not Applicable |
| 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

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

Details of the manufacturer or supplier of the safety data sheet

| Registered company name | CRC Industries (CRC Industries New Zealand) | |
|-------------------------|---|--|
| Address | 10 Highbrook Drive East Tamaki Auckland New Zealand | |
| Telephone | 64 9 272 2700 | |
| Fax | +64 9 274 9696 | |
| Website | www.crc.co.nz | |
| Email | - No EMAL ID NEEDED for NZ - JACK | |

Emergency telephone number

| Association / Organisation | CRC Industries (CRC Industries New Zealand) | CHEMWATCH EMERGENCY RESPONSE (24/7) |
|-----------------------------------|--|-------------------------------------|
| Emergency telephone numbers | NZ Poisons Centre 0800 POISON (0800 764 766) | +64 800 700 112 |
| Other emergency telephone numbers | 111 (NZ Emergency Services) | +61 3 9573 3188 |

SECTION 2 Hazards identification

Classification of the substance or mixture

| Classification ^[1] | Aerosols Category 3, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2 | |
|--|---|--|
| 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 | 6.4A, 6.5B (contact) | |

Label elements

Hazard pictogram(s)



| Signal word | Warning |
|-------------|---------|
|-------------|---------|

Hazard statement(s)

| H229 | Pressurised container: May burst if heated. | |
|------|---|--|
| H317 | May cause an allergic skin reaction. | |
| H319 | Causes serious eye irritation. | |

Precautionary statement(s) Prevention

| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | |
|------|--|--|
| P251 | Do not pierce or burn, even after use. | |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. | |
| P261 | 261 Avoid breathing mist/vapours/spray. | |

Precautionary statement(s) Response

| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. | |
|----------------|--|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. | |
| P337+P313 | P337+P313 If eye irritation persists: Get medical advice/attention. | |

Precautionary statement(s) Storage

| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | |
|-----------|--|--|
| | | |

| 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 |
|--|-----------|--|
| 70131-67-8 | >60 | dimethylsiloxane, hydroxy-terminated |
| 63148-62-9 | 10-20 | polydimethylsiloxane |
| 7631-86-9 | 5-10 | silica amorphous |
| 22984-54-9 | 3-5 | methyltri(methylethylketoxime)silane |
| 2224-33-1 | 1-3 | vinyltris(methylethylketoxime)silane |
| 7727-37-9. | 1-3 | nitrogen |
| Not Available | balance | Ingredients determined not to be hazardous |
| 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 measures

| Eye Contact | If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|---|
| Skin Contact | If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation. |
| Inhalation | If aerosols, fumes or combustion products are inhaled: ▶ Remove to fresh air. |

| | Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. |
|-----------|---|
| Ingestion | Not considered a normal route of entry. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Advice for firefighters

| | Alert Fire Brigade and tell them location and nature of hazard. |
|-----------------------|---|
| | May be violently or explosively reactive. |
| | Wear breathing apparatus plus protective gloves. |
| | Prevent, by any means available, spillage from entering drains or water course. |
| Fire Fighting | GENERAL |
| | Alert Fire Brigade and tell them location and nature of hazard. |
| | Wear breathing apparatus and protective gloves. |
| | Fight fire from a safe distance, with adequate cover. |
| | Use water delivered as a fine spray to control fire and cool adjacent area. |
| | ► Non combustible. |
| | Not considered to be a significant fire risk. |
| | Heating may cause expansion or decomposition leading to violent rupture of containers. |
| | Aerosol cans may explode on exposure to naked flames. |
| | Combustion products include: |
| Fire/Explosion Hazard | carbon dioxide (CO2) |
| | nitrogen oxides (NOx) |
| | silicon dioxide (SiO2) |
| | other pyrolysis products typical of burning organic material. |
| | CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible |
| | severe burns. Foaming may cause overflow of containers and may result in possible fire. |

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. |
|--------------|--|
| Major Spills | DO NOT exert excessive pressure on valve; DO NOTattempt to operate damaged valve. 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. Remove leaking cylinders to a safe place if possible. Release pressure under safe, controlled conditions by opening the valve. |

SECTION 7 Handling and storage

Precautions for safe handling

| | 5 |
|-------------------|--|
| 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. |
| Other information | Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can |

Conditions for safe storage, including any incompatibilities

| Suitable container | Aerosol dispenser. Check that containers are clearly labelled. | |
|-------------------------|---|--|
| Storage incompatibility | Avoid reaction with oxidising agents | |

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) | silica amorphous | Silica-Amorphous, Precipitated silica | 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 |
| 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) | silica amorphous | Silica fume respirable dust | 3 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | silica amorphous | Diatomaceous earth (not calcined) | 10 mg/m3 | Not Available | Not Available | Not Available |
| New Zealand Workplace Exposure Standards (WES) | nitrogen | Nitrogen | Not Available | Not Available | Not Available | (sa) - Simple asphyxiant |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|--|--------------|--------------|--------------|
| dimethylsiloxane, hydroxy- terminated | 190 mg/m3 | 2,100 mg/m3 | 13,000 mg/m3 |
| polydimethylsiloxane | 65 mg/m3 | 720 mg/m3 | 4,300 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 |
| nitrogen | 7.96E+05 ppm | 8.32E+05 ppm | 8.69E+05 ppm |

| Ingredient | Original IDLH | Revised IDLH |
|--|---------------|---------------|
| dimethylsiloxane, hydroxy- terminated | Not Available | Not Available |
| polydimethylsiloxane | Not Available | Not Available |
| silica amorphous | 3,000 mg/m3 | Not Available |
| methyltri(methylethylketoxime)silane | Not Available | Not Available |
| vinyltris(methylethylketoxime)silane | Not Available | Not Available |
| nitrogen | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating Occupational Exposure Band Limit | | |
|--------------------------------------|--|------------------|--|
| methyltri(methylethylketoxime)silane | D | > 0.1 to ≤ 1 ppm | |
| vinyltris(methylethylketoxime)silane | D | > 0.1 to ≤ 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 a 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. | | | |
|--|---|--|--|--|
| Individual protection measures, such as personal protective equipment | | | | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. 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. Close fitting gas tight goggles | | | |
| Skin protection | See Hand protection below | | | |
| Hands/feet protection | NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. 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. | | | |

Respiratory protection

Type A-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 | A-AUS P2 | - | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | A-AUS / Class 1 P2 | - |
| up to 100 x ES | - | A-2 P2 | A-PAPR-2 P2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Non-slump paste (solid paste) with an oxime odour; not miscible with water. | | |
|---|---|---|----------------|
| | | | |
| Physical state | Non Slump Paste | 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 Available | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |
| Heat of Combustion (kJ/g) | Not Available | Ignition Distance (cm) | Not Available |
| Flame Height (cm) | Not Available | Flame Duration (s) | Not Available |
| Enclosed Space Ignition Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition Deflagration Density (g/m3) | Not Available |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|-------------------------------------|---|
| Chemical stability | Silicone fluids are stable under normal storage conditions. Hazardous polymerisation will not occur. At temperatures > 150 C, silicones can slowly react with the oxygen in air. When heated > 300 C, silicones can slowly depolymerise to volatile siloxanes whether or not air is present. 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 aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. |
|---------|--|
| | There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. |
| | The major toxic effects of MEKO, regardless of the route of administration, are anaemia with breakdown of red blood cells, rapid breathing and reversible reduction in spontaneous activity, motor coordination and muscle tone. At extremely high concentrations it may cause unconsciousness and failure of breathing. |
| | Inhalation of toxic gases may cause: |

| | Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures; respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest; heart: collapse, irregular heartbeats and cardiac arrest; gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal. Spray mist may produce discomfort |
|--------------|---|
| Ingestion | Accidental ingestion of the material may be damaging to the health of the individual. High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption. Occasionally accumulation of the solid material within the alimentary tract may result in formation of a bezoar (concretion), producing discomfort. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments |
| Skin Contact | Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Skin application with methyl ethyl ketoxime under an occlusive dressing produced mild irritation with redness, swelling and wheals. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material Low molecular weight silicone fluids may exhibit solvent action and may produce skin irritation. Excessive use or prolonged contact may lead to defatting, drying and irritation of sensitive skin |
| Eye | There is some evidence to suggest that this material can cause eye irritation and damage in some persons. 0.1 ml of methyl ethyl ketoxime can be corrosive to the eye. Not considered to be a risk because of the extreme volatility of the gas. Eye exposure to silicone fluids causes temporary irritation of the conjunctiva. Injection into the specific structures of the eye, however, causes corneal scarring, permanent eye damage, allergic reactions and cataract, and may lead to blindness. |
| Chronic | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Methyl ethyl ketoxime causes an immediate but transient central nervous system depression, dose-related decreases in red blood cell counts accompanied by a compensatory marked increase in number of immature red cells, suggesting rapid red cell breakdown. Other effects include dose-related increase in spleen, liver and kidney weights. Deposits of iron have been reported in the liver and spleen at repeated high doses. This may increase risk of liver tumours. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. |

| CRC RTV Silicone Sealant | ΤΟΧΙΟΙΤΥ | IRRITATION |
|--|---|--|
| CRC RTV Shicone Sealant | Not Available | Not Available |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| dimethylsiloxane, hydroxy- terminated | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | Not Available |
| | Oral (Rat) LD50: >5000 mg/kg ^[2] | |
| | ΤΟΧΙCITY | IRRITATION |
| polydimethylsiloxane | Dermal (rabbit) LD50: >3000 mg/kg ^[2] | Eye (rabbit): 100 mg/1h - mild |
| | Oral (Rat) LD50: >35000 mg/kg ^[2] | |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| silica amorphous | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): non-irritating ** [Grace] |
| | Inhalation (Rat) LC50: >0.09<0.84 mg/l4h ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| | Oral (Rat) LD50: >1000 mg/kg ^[1] | Skin (rabbit): non-irritating * |
| | | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| methyltri(methylethylketoxime)silane | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye: adverse effect observed (irritating) ^[1] |
| | Oral (Rat) LD50: 2453 mg/kg ^[1] | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| vinyltris(methylethylketoxime)silane | dermal (rat) LD50: >2009 mg/kg ^[1] | Eye: adverse effect observed (irritating) ^[1] |
| | Oral (Rat) LD50: >2000 mg/kg ^[1] | Skin: no adverse effect observed (not irritating) ^[1] |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| nitrogen | Not Available | Not Available |

Legend:

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

| DIMETHYLSILOXANE, HYDRO | DXY-TERMINATED | * [Mobay Chemical Corp] **[0 | GE] | |
|---|--|--|--|---|
| POLYDIN | IETHYLSILOXANE | No toxic response noted during 90 day subchronic inhalation toxicity studies The no observable effect level is 450 mg/m3. Non-irritating and non-sensitising in human patch test. [Xerox]* The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | |
| SIL | SILICA AMORPHOUS Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS] 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. | | | [PATTYS] |
| CRC RTV METHYLTRI(METHYLETHYLK VINYLTRIS(METHYLETHYLK | & | The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. | | |
| DIMETHYLSILOXANE, HYDRO | Silicone Sealant & DXY-TERMINATED IETHYLSILOXANE | Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They have not been found to be irritating to the skin and eyes. They may potentially cause cancer (tumours of the womb in females) and may cause impaired fertility or infertility. | | |
| CRC RTV VINYLTRIS(METHYLETHYLK | Silicone Sealant & ETOXIME)SILANE & NITROGEN | No significant acute toxicological data identified in literature search. | | |
| CRC RTV Silicone Sealant & SILICA AMORPHOUS | | In humans, synthetic amorph inhalation. Epidemiology stuc exposure (without personal p the skin. When experimental animals i | lies show little evidence of adver rotection) may cause mechanica nhale synthetic amorphous silica | 000 mg/kg/d. on-toxic by mouth, skin or eyes, and by rse health effects due to SAS. Repeated al irritation of the eye and drying/cracking of a (SAS) dust, it dissolves in the lung fluid and excreted in the faeces and there is little |
| METHYLTRI(METHYLETHYLKETOXIME)SILANE alpha,beta-Unsaturated oximes represent two previously unknown classes of prohaptens.Three metabolites were proposed as sensitising agents. These included two diastereometric alpha,beta oximes and a nitro analogue. When tested in the LLNA,alpha,beta-epoxy oximes. & Allergic Contact Dermatitis—Formation, Structural Requirements,and Reactivity of Skin Sensitiz Ann-Therese Karlberg et al: Chem. Res. The material may cause skin irritation after prolonged or repeated exposure and may produce or skin redness, swelling, the production of vesicles, scaling and thickening of the skin. | | uded two diastereometric alpha,beta-epoxy ,beta-epoxy oximes. ents,and Reactivity of Skin Sensitizers. ated exposure and may produce on contact | | |
| Acute Toxicity | × | | Carcinogenicity | × |

| Acute Toxicity | × | Carcinogenicity | × |
|-----------------------------------|----|-----------------------------------|---|
| Skin Irritation/Corrosion | × | Reproductivity | × |
| Serious Eye Damage/Irritation | * | STOT - Single Exposure | × |
| Respiratory or Skin sensitisation | * | STOT - Repeated Exposure | × |
| Mutagenicity | × | Aspiration Hazard | × |
| | Le | aend: 🛛 🗙 – Data either not avail | able or does not fill the criteria for classification |

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

SECTION 12 Ecological information

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|--|------------------|--------------------|---------------|------------------|-----------------|
| CRC RTV Silicone Sealant | Not Available | Not Available | Not Available | Not Available | Not Availabl |
| dimethylsiloxane, hydroxy- terminated | Endpoint | Test Duration (hr) | Species | Value | Source |
| | Not Available | Not Available | Not Available | Not Available | Not Availab |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| polydimethylsiloxane | Not Available | Not Available | Not Available | Not Available | Not Availab |
| silica amorphous | Endpoint | Test Duration (hr) | Species | Value | Sourc |

| | EC50 | 72h | Algae or other aquatic plants | 14.1mg/l | 2 |
|--------------------------------------|----------------------|--------------------|-------------------------------|------------------|------------------|
| | EC50 | 48h | Crustacea | >86mg/l | 2 |
| | LC50 | 96h | Fish | 1033.016mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 217.576mg/l | 2 |
| | EC0(ECx) | 24h | Crustacea | >=10000mg/l | 1 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | LC50 | 96h | Fish | >100mg/l | 2 |
| methyltri(methylethylketoxime)silane | ane EC50 | 72h | Algae or other aquatic pla | nts 6.1mg/l | 2 |
| | EC50 | 48h | Crustacea | 201mg/l | 2 |
| | NOEC(ECx |) 72h | Algae or other aquatic pla | nts 1mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | LC50 | 96h | Fish | >100mg/l | 2 |
| vinyltris(methylethylketoxime)sil | ane EC50 | 72h | Algae or other aquatic pla | nts 6.1mg/l | 2 |
| | EC50 | 48h | Crustacea | 201mg/l | 2 |
| | NOEC(ECx |) 72h | Algae or other aquatic pla | nts 1mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| nitro | gen Not Available | Not Available | Not Available | Not Available | Not Available |

4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For Siloxanes:

Environmental Fate: Siloxanes are used in cosmetics, wax, polishes, and to a minor extent in several other applications.

Atmospheric Fate: In the presence of nitrate ions, short chain siloxanes are broken down by sunlight to the level of silicate within days. The main source atmospheric siloxane release to the air is via evaporation.

Aquatic Fate: It is well accepted that polydimethylsiloxane fluids become permanent residents of sediment but should not have adverse environmental effects. For Amorphous Silica: Amorphous silica is chemically and biologically inert. It is not biodegradable.

Aquatic Fate: Due to its insolubility in water there is a separation at every filtration and sedimentation process. On a global scale, the level of man-made synthetic amorphous silicas (SAS) represents up to 2.4% of the dissolved silica naturally present in the aquatic environment and untreated SAS have a relatively low water solubility and an extremely low vapour pressure.

For Silica:

Environmental Fate: Most documentation on the fate of silica in the environment concerns dissolved silica, in the aquatic environment, regardless of origin, (manmade or natural), or structure, (crystalline or amorphous).

Terrestrial Fate: Silicon makes up 25.7% of the Earth's crust, by weight, and is the second most abundant element, being exceeded only by oxygen. Silicon is not found free in nature, but occurs chiefly as the oxide and as silicates. Once released into the environment, no distinction can be made between the initial forms of silica.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|--------------------------------------|-------------------------|------------------|
| silica amorphous | LOW | LOW |
| methyltri(methylethylketoxime)silane | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|--------------------------------------|-----------------------|
| silica amorphous | LOW (LogKOW = 0.5294) |
| methyltri(methylethylketoxime)silane | LOW (LogKOW = 7.8316) |

Mobility in soil

| Ingredient | Mobility | | |
|--------------------------------------|------------------------|--|--|
| silica amorphous | LOW (Log KOC = 23.74) | | |
| methyltri(methylethylketoxime)silane | LOW (Log KOC = 590900) | | |

SECTION 13 Disposal considerations

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

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

SECTION 14 Transport information

Labels Required

longer hazardous.

| | 2 |
|------------------|----------------|
| Marine Pollutant | NO |
| HAZCHEM | Not Applicable |

Land transport (UN)

| 14.1. UN number or ID number | 1950 | | | | | | |
|------------------------------------|--|---------------------------------------|--|--|--|--|--|
| 14.2. UN proper shipping name | AEROSOLS | AEROSOLS | | | | | |
| 14.3. Transport hazard class(es) | Class Subsidiary Hazard | | | | | | |
| 14.4. Packing group | Not Applicable | Not Applicable | | | | | |
| 14.5. Environmental hazard | Not Applicable | | | | | | |
| 14.6. Special precautions for user | Special provisions Limited quantity | 63; 190; 277; 327; 344; 381 1000ml | | | | | |

Air transport (ICAO-IATA / DGR)

| 14.1. UN number | 1950 | | | | |
|-------------------------------------|---------------------------------|--------------------|--|--|--|
| 14.2. UN proper shipping name | Aerosols, non-flammable | | | | |
| | ICAO/IATA Class | 2.2 | | | |
| 14.3. Transport hazard class(es) | ICAO / IATA Subsidiary Hazard | Not Applicable | | | |
| 0.200(00) | ERG Code | 2L | | | |
| 14.4. Packing group | Not Applicable | Not Applicable | | | |
| 14.5. Environmental hazard | Not Applicable | | | | |
| 14.6. Special precautions for user | Special provisions | A98 A145 A167 A802 | | | |
| | Cargo Only Packing Instructions | 203 | | | |
| | Cargo Only Maximum Qty / Pack | 150 kg | | | |
| | Passenger and Cargo Packing Ir | 203 | | | |
| | Passenger and Cargo Maximum | 75 kg | | | |
| | Passenger and Cargo Limited Qu | Y203 | | | |
| | Passenger and Cargo Limited Ma | 30 kg G | | | |

Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number | 1950 | | | |
|---------------------------------------|------------------------|---------|-------------------------|--|
| 14.2. UN proper shipping name | AEROSOLS | | | |
| 14.3. Transport hazard | IMDG Class | | 2.2 | |
| class(es) | IMDG Subsidiary Hazard | | Not Applicable | |
| 14.4. Packing group | Not Applicable | | | |
| 14.5 Environmental hazard | Not Applicable | | | |
| 14.6 Special processitions | EMS Number | F-D, | 9 , S-U | |
| 14.6. Special precautions for user | Special provisions | 63 19 | 190 277 327 344 381 959 | |
| | Limited Quantities | 1000 ml | | |

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

Not Applicable

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

| Product name | Group |
|--|---------------|
| dimethylsiloxane, hydroxy- terminated | Not Available |
| polydimethylsiloxane | Not Available |
| silica amorphous | Not Available |
| methyltri(methylethylketoxime)silane | Not Available |
| vinyltris(methylethylketoxime)silane | Not Available |
| nitrogen | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|--|---------------|
| dimethylsiloxane, hydroxy- terminated | Not Available |
| polydimethylsiloxane | Not Available |
| silica amorphous | Not Available |
| methyltri(methylethylketoxime)silane | Not Available |
| vinyltris(methylethylketoxime)silane | Not Available |
| nitrogen | 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 |
|------------|--|
| HSR002519 | Aerosols (Subsidiary Hazard) Group Standard 2017 |

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

dimethylsiloxane, hydroxy-terminated is found on the following regulatory lists

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)

polydimethylsiloxane is found on the following regulatory lists

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)

silica amorphous is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

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)

methyltri(methylethylketoxime)silane is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

vinyltris(methylethylketoxime)silane is found on the following regulatory lists

New Zealand Inventory of Chemicals (NZIoC)

nitrogen is found on the following regulatory lists

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)

Additional Regulatory Information

Not Applicable

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 |
|--------------|--------------------------------------|---------------|---------------|---|
| 6.5A or 6.5B | 120 | 1 | 3 | |

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory | Status | | |
|--|---|--|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes | | |
| Canada - DSL | Yes | | |
| Canada - NDSL | No (dimethylsiloxane, hydroxy-terminated; polydimethylsiloxane; methyltri(methylethylketoxime)silane; vinyltris(methylethylketoxime)silane; nitrogen) | | |
| China - IECSC | Yes | | |
| Europe - EINEC / ELINCS / NLP | No (dimethylsiloxane, hydroxy-terminated; polydimethylsiloxane) | | |
| Japan - ENCS | No (nitrogen) | | |
| Korea - KECI | Yes | | |
| New Zealand - NZIoC | Yes | | |
| Philippines - PICCS | Yes | | |
| USA - TSCA | Yes | | |
| Taiwan - TCSI | Yes | | |
| Mexico - INSQ | No (methyltri(methylethylketoxime)silane; vinyltris(methylethylketoxime)silane) | | |

| National Inventory | Status | |
|--------------------|--|--|
| 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 | 10/07/2024 |
|---------------|------------|
| Initial Date | 27/06/2016 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|--|
| 4.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |
| 5.1 | 10/07/2024 | Expiration. Review and 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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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