

Permatex Black Silicone Adhesive Sealant 3oz. Tube

ITW AAMTech

Chemwatch: 5058-52

Version No: 10.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 22/09/2014

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Initial Date: **Not Available**

S.GHS.AUS.EN

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

Product Identifier

| | |
|-------------------------------|--|
| Product name | Permatex Black Silicone Adhesive Sealant 3oz. Tube |
| Chemical Name | Not Applicable |
| Synonyms | PX81158 Permatex Black Silicone Adhesive Sealant 3oz. Tube, PX81173 Permatex Black Silicone Adhesive Sealant 12.9oz. Cartridge |
| Proper shipping name | Not Applicable |
| Chemical formula | Not Applicable |
| Other means of identification | Not Available |
| CAS number | Not Applicable |

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

| | |
|--------------------------|-------------------|
| Relevant identified uses | Silicone sealant. |
|--------------------------|-------------------|

Details of the manufacturer/importer

| | |
|-------------------------|---------------------------------------|
| Registered company name | ITW AAMTech |
| Address | 100 Hassall Street 2164 NSW Australia |
| Telephone | 1800 177 989 |
| Fax | 1800 308 556 |
| Website | www.aamtech.com.au |
| Email | info@aamtech.com.au |

Emergency telephone number

| | |
|-----------------------------------|-----------------|
| Association / Organisation | Not Available |
| Emergency telephone numbers | 1800 039 008 |
| Other emergency telephone numbers | +61 3 9573 3112 |

SECTION 2 HAZARDS IDENTIFICATION


Classification of the substance or mixture

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

| | |
|-----------------------------------|--|
| Poisons Schedule | Not Applicable |
| GHS Classification ^[1] | Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Skin Sensitizer Category 1, Carcinogen Category 2 |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI |

Label elements

**Permatex Black Silicone Adhesive Sealant
3oz. Tube**

| | |
|--------------------|---|
| GHS label elements |  |
|--------------------|---|

| | |
|-------------|----------------|
| SIGNAL WORD | WARNING |
|-------------|----------------|

Hazard statement(s)

| | |
|-------------|-------------------------------------|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H317 | May cause an allergic skin reaction |
| H351 | Suspected of causing cancer |

Precautionary statement(s): Prevention

| | |
|-------------|--|
| P201 | Obtain special instructions before use. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |

Precautionary statement(s): Response

| | |
|-----------------------|--|
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| 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. |

Precautionary statement(s): Storage

| | |
|-------------|------------------|
| P405 | Store locked up. |
|-------------|------------------|

Precautionary statement(s): Disposal

| | |
|-------------|--|
| P501 | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|-------------|--|

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|------------|-----------|---|
| 70131-67-8 | 30-50 | dimethylsiloxane, hydroxy-terminated |
| 1317-65-3 | 20-40 | limestone |
| 471-34-1 | 15-40 | calcium carbonate |
| 64742-47-8 | <5 | distillates, petroleum, light, hydrotreated |
| 2224-33-1 | <5 | vinyltris(methylethylketoxime)silane |
| 1333-86-4 | <3 | carbon black |
| 57-11-4 | <2 | stearic acid |
| | NotSpec. | NOTE: During curing or on exposure to moist |
| | NotSpec. | air product generates |
| 96-29-7 | 0.5-2 | methyl ethyl ketoxime |

NOTE: During curing or on exposure to moist air product generates

SECTION 4 FIRST AID MEASURES

Description of first aid measures

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|--------------------|---|
| Eye Contact | If this product comes in contact with the eyes: |
|--------------------|---|

Continued...

**Permatex Black Silicone Adhesive Sealant
3oz. Tube**

| | |
|---------------------|---|
| | <ul style="list-style-type: none">▶ Wash out immediately with fresh running water.▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | <p>If skin contact occurs:</p> <ul style="list-style-type: none">▶ 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 | <ul style="list-style-type: none">▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area.▶ Other measures are usually unnecessary. |
| Ingestion | <ul style="list-style-type: none">▶ 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.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

| | |
|--|---|
| | <ul style="list-style-type: none">▶ Water spray or fog.▶ Alcohol stable foam.▶ Dry chemical powder.▶ Carbon dioxide. |
|--|---|

Special hazards arising from the substrate or mixture

| | |
|-----------------------------|--|
| Fire Incompatibility | <ul style="list-style-type: none">▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result |
|-----------------------------|--|

Advice for firefighters

| | |
|------------------------------|--|
| Fire Fighting | <ul style="list-style-type: none">▶ Alert Fire Brigade and tell them location and nature of hazard.▶ Wear breathing apparatus plus protective gloves.▶ Prevent, by any means available, spillage from entering drains or water course.▶ Use water delivered as a fine spray to control fire and cool adjacent area. |
| Fire/Explosion Hazard | <ul style="list-style-type: none">▶ Combustible.▶ Slight fire hazard when exposed to heat or flame.▶ Heating may cause expansion or decomposition leading to violent rupture of containers.▶ On combustion, may emit toxic fumes of carbon monoxide (CO). |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|---------------------|--|
| Minor Spills | <p>Slippery when spilt. Remove all ignition sources.</p> <ul style="list-style-type: none">▶ Clean up all spills immediately.▶ Avoid contact with skin and eyes. |
| Major Spills | <p>Slippery when spilt. Minor hazard.</p> <ul style="list-style-type: none">▶ Clear area of personnel and move upwind.▶ Alert Fire Brigade and tell them location and nature of hazard. |
| | <p>Personal Protective Equipment advice is contained in Section 8 of the MSDS.</p> |

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

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|----------------------|---|
| Safe handling | <ul style="list-style-type: none">▶ Avoid all personal contact, including inhalation. |
|----------------------|---|

Continued...

Permatex Black Silicone Adhesive Sealant 3oz. Tube

| | |
|--------------------------|---|
| | <ul style="list-style-type: none"> ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Prevent concentration in hollows and sumps. |
| Other information | <ul style="list-style-type: none"> ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ No smoking, naked lights or ignition sources. ▶ Store in a cool, dry, well-ventilated area. |

Conditions for safe storage, including any incompatibilities

| | |
|--------------------------------|--|
| Suitable container | <ul style="list-style-type: none"> ▶ Lined metal can, lined metal pail/ can. ▶ Plastic pail. ▶ Polyliner drum. ▶ Packing as recommended by manufacturer. |
| Storage incompatibility | Avoid contact with moisture. Avoid storage with oxidisers |

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|---|---------------------------|----------------------|---------------|---------------|---------------|
| Australia Exposure Standards | limestone | Calcium carbonate (a) | 10 mg/m ³ | Not Available | Not Available | Not Available |
| Australia Exposure Standards | calcium carbonate | Calcium carbonate (a) | 10 mg/m ³ | Not Available | Not Available | Not Available |
| Australia Exposure Standards | distillates, petroleum, light, hydrotreated | Oil mist, refined mineral | 5 mg/m ³ | Not Available | Not Available | Not Available |
| Australia Exposure Standards | carbon black | Carbon black | 3 mg/m ³ | Not Available | Not Available | Not Available |
| Australia Exposure Standards | stearic acid | Stearates (a) (d) | 10 mg/m ³ | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | TEEL-0 | TEEL-1 | TEEL-2 | TEEL-3 |
|--|---------------|---------------|---------------|---------------|
| Permatex Black Silicone Adhesive Sealant 3oz. Tube | Not Available | Not Available | Not Available | Not Available |






| Ingredient | Original IDLH | Revised IDLH |
|---|-----------------------------------|-------------------------|
| dimethylsiloxane, hydroxy-terminated | Not Available | Not Available |
| limestone | Not Available | Not Available |
| calcium carbonate | Not Available | Not Available |
| distillates, petroleum, light, hydrotreated | Not Available | Not Available |
| vinyltris(methylethylketoxime)silane | Not Available | Not Available |
| carbon black | N.E. mg/m ³ / N.E. ppm | 1,750 mg/m ³ |
| stearic acid | Not Available | Not Available |
| methyl ethyl ketoxime | Not Available | Not Available |

Exposure controls

| | |
|---|---|
| Appropriate engineering controls | Use in a well-ventilated area General exhaust is adequate under normal operating conditions. |
|---|---|

Continued...

Permatex Black Silicone Adhesive Sealant 3oz. Tube

| | |
|--------------------------------|---|
| Personal protection |      |
| Eye and face protection | <ul style="list-style-type: none"> ▶ Safety glasses with side shields. ▶ Chemical goggles. ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. |
| Skin protection | See Hand protection below |
| Hands/feet protection | <ul style="list-style-type: none"> ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber |
| Body protection | See Other protection below |
| Other protection | <ul style="list-style-type: none"> ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream. |
| Thermal hazards | Not Available |

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:

Permatex Black Silicone Adhesive Sealant 3oz. Tube Not Available

| Material | CPI |
|----------|-----|
|----------|-----|

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|--|--|----------------|
| Appearance | Black paste with a mild odour; immiscible with water. Will slowly polymerise in contact with moisture. | | |
| Physical state | Non Slump Paste | Relative density (Water = 1) | 1.43 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | >93 (TCC) | Taste | Not Available |
| Evaporation rate | Not Applicable | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |

Continued...

**Permatex Black Silicone Adhesive Sealant
3oz. Tube**

| | | | |
|----------------------------------|---------------|---|-------------------|
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | <4% (VOC - by wt) |
| Vapour pressure (kPa) | <0.67 | Gas group | Not Available |
| Solubility in water (g/L) | Immiscible | pH as a solution(1%) | Not Applicable |
| Vapour density (Air = 1) | 3.0 | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | See section 7 |
| Chemical stability | <ul style="list-style-type: none"> ▶ Unstable in the presence of incompatible materials. ▶ Product is considered stable. ▶ Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | |
|---------------------|---|
| Inhaled | <p>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.</p> <p>The principal toxic effects of methyl ethyl ketoxime MEKO in animal studies, regardless of the route of administration, include haemolytic anaemia, increased respiration; and reversible reduction in spontaneous activity, motor coordination and muscle tone.</p> <p>At high vapour concentration the product has a reversible narcotic action. Extremely high concentrations may lead to coma and respiratory failure.</p> |
| Ingestion | <p>Accidental ingestion of the material may be damaging to the health of the individual.</p> <p>Ingestion may result in nausea, abdominal irritation, pain and vomiting.</p> <p>Smoothing the sealant with saliva wet finger may introduce sealant into the mouth. Safer alternates should replace this poor work practice.</p> |
| Skin Contact | <p>Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.</p> |
| Eye | <p>Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.</p> <p>Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.</p> <p>[Methyl ethyl ketoxime produced during curing causes irritation to eyes, nose and throat.</p> |
| Chronic | <p>On the basis, primarily, of animal experiments, concern has been expressed that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.</p> <p>Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.</p> |

| | | |
|---|-----------------|-------------------|
| Permatex Black Silicone Adhesive Sealant 3oz. Tube | TOXICITY | IRRITATION |
| | Not Available | Not Available |

Continued...

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| | | |
|---|---|------------------------------------|
| dimethylsiloxane, hydroxy-terminated | TOXICITY | IRRITATION |
| | Inhalation (rat) LC50: >535 mg/l ** | |
| | Oral (rat) LD50: >40000 mg/kg ** | |
| | Oral (rat) LD50: >5000 mg/kg * | |
| | Not Available | Not Available |
| limestone | TOXICITY | IRRITATION |
| | Oral (rat) LD50: 6450 mg/kg | Skin (rabbit): 500 mg/24h-moderate |
| | Not Available | Not Available |
| calcium carbonate | TOXICITY | IRRITATION |
| | Oral (Rat) LD50: 6450 mg/kg | Eye (rabbit): 0.75 mg/24h - SEVERE |
| | | Skin (rabbit): 500 mg/24h-moderate |
| | Not Available | Not Available |
| distillates, petroleum, light, hydrotreated | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| vinyltris(methylethylketoxime)silane | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| carbon black | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >3000 mg/kg | |
| | Not Available | Not Available |
| stearic acid | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >5000 mg/kg | Skin (human): 75 mg/3d-I-mild |
| | Intravenous (mouse) LD50: 23 mg/kg | Skin (rabbit): 500 mg/24h-moderate |
| | Intravenous (rat) LD50: 21.5 mg/kg | |
| | Not Available | Not Available |
| methyl ethyl ketoxime | TOXICITY | IRRITATION |
| | Dermal (rabbit) LD50: >1000 mg/kg * | Eye (rabbit): 0.1 ml - SEVERE |
| | Inhalation (rat) LC50: >4.83 mg/l * | |
| | Inhalation (Rat) LC50: 20 mg/l/4h ** | |
| | Intraperitoneal (mouse) LD50: 200 mg/kg | |
| | Oral (Rat) LD50: >2400 mg/kg ** | |
| | Oral (rat) LD50: 930 mg/kg | |
| | Subcutaneous (rat) LD50: 2702 mg/kg | |
| | Not Available | Not Available |

Permatex Black Silicone Adhesive Sealant 3oz. Tube

Not available. Refer to individual constituents.

| | |
|--|--|
| DIMETHYLSILOXANE, HYDROXY-TERMINATED | <p>For siloxanes:</p> <p>Effects which based on the reviewed literature do not seem to be problematic are acute toxicity, irritant effects, sensitization and genotoxicity.</p> <p>Some studies indicate that some of the siloxanes may have endocrine disrupting properties, and reproductive effects have caused concern about the possible effects of the siloxanes on humans and the environment.</p> <p>Only few siloxanes are described in the literature with regard to health effects, and it is therefore not possible to make broad conclusions and comparisons of the toxicity related to short-chained linear and cyclic siloxanes based on the present evaluation. Data are primarily found on the cyclic siloxanes D4 (octamethylcyclotetrasiloxane) and D5 (decamethylcyclopentasiloxane) and the short-linear HMDS (hexamethyldisiloxane).</p> <p>* [Mobay Chemical Corp] **[GE]</p> |
| LIMESTONE | <p>The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.</p> <p>The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis.</p> <p>Eye (rabbit) 0.75: mg/24h -</p> |
| DISTILLATES, PETROLEUM, LIGHT, HYDROTREATED | <p>For "kerosenes"</p> <p>Acute toxicity: Oral LD50s for three kerosenes (Jet A, CAS No. 8008-20-6 and CAS No. 64742-81-0) ranged from > 2 to >20 g/kg The dermal LD50s of the same three kerosenes were all >2.0 g/kg. Inhalation LC50 values in Sprague-Dawley rats for straight run kerosene (CAS No. 8008-20-6) and hydrodesulfurised kerosene (CAS No. 64742-81-0) were reported to be > 5 and > 5.2 mg/l, respectively. No mortalities in rats were reported in rats when exposed for eight hours to saturated vapor of deodorised kerosene (probably a desulfurised kerosene). Six hour exposures of cats to the same material produced an LC50 of >6.4 mg/l</p> <p>When tested in rabbits for skin irritation, straight run kerosene (CAS No. 8008-20-6) produced "moderate" to "severe" irritation.</p> |
| CARBON BLACK | <p>No significant acute toxicological data identified in literature search.</p> <p>WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.</p> <p>Inhalation (rat) TCl₀: 50 mg/m³/6h/90D-I Nil reported</p> |
| STEARIC ACID | Equivocal tumorigen by RTEC criteria |
| METHYL ETHYL KETOXIME | Mammalian lymphocyte mutagen *Huls Canada ** Merck |
| LIMESTONE, CALCIUM CARBONATE | No evidence of carcinogenic properties. No evidence of mutagenic or |
| LIMESTONE, CALCIUM CARBONATE | teratogenic effects. |
| CALCIUM CARBONATE, STEARIC ACID | <p>Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.</p> |
| VINYLTRIS(METHYLETHYLKETOXIME)SILANE, METHYL ETHYL KETOXIME | <p>The following information refers to contact allergens as a group and may not be specific to this product.</p> <p>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.</p> |

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| | | | |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity | ⊘ | Carcinogenicity | ✓ |
| Skin Irritation/Corrosion | ✓ | Reproductivity | ⊘ |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | ⊘ |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | ⊘ |
| Mutagenicity | ⊘ | Aspiration Hazard | ⊘ |

Legend: ✓ – Data required to make classification available
✗ – Data available but does not fill the criteria for classification
⊘ – Data Not Available to make classification

CMR STATUS

Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---------------|-------------------------|------------------|
| Not Available | Not Available | Not Available |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|---------------|-----------------|
| Not Available | Not Available |

Mobility in soil

| Ingredient | Mobility |
|---------------|---------------|
| Not Available | Not Available |

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| Product / Packaging disposal | <ul style="list-style-type: none"> Consult manufacturer for recycling options and recycle where possible . Consult State Land Waste Management Authority for disposal. Incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill. |
|------------------------------|---|
|------------------------------|---|

SECTION 14 TRANSPORT INFORMATION

Labels Required

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

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Inland waterways transport (ADNR / River Rhine): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

| Source | Ingredient | Pollution Category |
|--|--------------|--------------------|
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in | stearic acid | Y |

Continued...

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| | | |
|---|-----------------------|---|
| Bulk | | |
| IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk | methyl ethyl ketoxime | Y |

SECTION 15 REGULATORY INFORMATION

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

| | |
|--|--|
| dimethylsiloxane, hydroxy-terminated(70131-67-8) is found on the following regulatory lists | "Australia Inventory of Chemical Substances (AICS)" |
| limestone(1317-65-3) is found on the following regulatory lists | "Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)" |
| calcium carbonate(471-34-1) is found on the following regulatory lists | "Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)" |
| distillates, petroleum, light, hydrotreated(64742-47-8) is found on the following regulatory lists | "Australia Exposure Standards", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "Australia Inventory of Chemical Substances (AICS)", "International Air Transport Association (IATA) Dangerous Goods Regulations", "Australia Hazardous Substances Information System - Consolidated Lists" |
| vinyltris(methylethylketoxime)silane(2224-33-1) is found on the following regulatory lists | "Australia Inventory of Chemical Substances (AICS)" |
| carbon black(1333-86-4) is found on the following regulatory lists | "Australia Exposure Standards", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists" |
| stearic acid(57-11-4) is found on the following regulatory lists | "Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)" |
| methyl ethyl ketoxime(96-29-7) is found on the following regulatory lists | "Australia Inventory of Chemical Substances (AICS)", "International Air Transport Association (IATA) Dangerous Goods Regulations", "Australia Hazardous Substances Information System - Consolidated Lists" |

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)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.

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