

**DOW CORNING(R) 1080 OXIME SEALANT
TRANSLUCENT**

Version 1.2 Revision Date: 08.06.2015 MSDS Number: 776415-00003 Date of last issue: 31.03.2015
Date of first issue: 18.11.2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DOW CORNING(R) 1080 OXIME SEALANT TRANSLUCENT

Product code : 000000000003325628

Manufacturer or supplier's details

Company : Dow Corning New Zealand Limited

Address : C/- Simpson Grierson
Lumley Centre
88 Shortland Street
Auckland City, New Zealand

Telephone : + (64) 0800 442 126

Emergency telephone number : 1300-360-732 (24 Hours)

Telefax : + (64) 0800 446 165

Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

SECTION 2. HAZARDS IDENTIFICATION**Hazard classification**

HAZARDOUS SUBSTANCE
NON-DANGEROUS GOODS

Risk phrase(s)

Irritating to eyes.
May cause sensitisation by skin contact.

Safety phrase(s)

Avoid contact with skin.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves.
This material and its container must be disposed of as hazardous waste.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Silicone
Sealant

Hazardous components

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| Chemical Name | CAS-No. | Concentration (%) |
|---|------------|-------------------|
| Silicon dioxide | 7631-86-9 | < 10 |
| Methyltri(ethylmethylketoxime)silane | 22984-54-9 | < 10 |
| Vinyltri (methylethylketoxime) silane | 2224-33-1 | < 10 |
| 3-Aminopropyltriethoxysilane | 919-30-2 | < 10 |
| Ethyl methyl ketoxime | 96-29-7 | < 10 |
| Dimethylbis[(1-oxoneodecyl)oxy]stannane | 68928-76-7 | < 10 |

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : Irritating to eyes.
May cause sensitisation by skin contact.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

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| | |
|---|---|
| Unsuitable extinguishing media | : None known. |
| Specific hazards during fire-fighting | : Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : Carbon oxides Silicon oxides Formaldehyde Nitrogen oxides (NOx) |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations. |
| Environmental precautions | : Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

SECTION 7. HANDLING AND STORAGE

| | |
|-------------------------|---|
| Technical measures | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : Use only with adequate ventilation. |

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- Advice on safe handling : Do not get on skin or clothing.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep container tightly closed.
Keep away from water.
Protect from moisture.
Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
- Conditions for safe storage : Keep in properly labelled containers.
Keep tightly closed.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|--|----------------------------------|--|---------|
| Silicon dioxide | 7631-86-9 | WES-TWA | 10 mg/m ³ | NZ OEL |
| | Further information: The value for inhalable dust containing no asbestos and less than 1% free silica. | | | |
| Ethyl methyl ketoxime | 96-29-7 | TWA | 10 ppm | DCC OEL |
| | Further information: Skin sensitisation | | | |
| Dimethylbis[(1-oxoneodecyl)oxy]stannane | 68928-76-7 | WES-TWA | 0.1 mg/m ³ (Tin) | NZ OEL |
| | Further information: Skin absorption | | | |
| | | WES-STEL | 0.2 mg/m ³ (Tin) | NZ OEL |
| | Further information: Skin absorption | | | |
| | | TWA | 0.1 mg/m ³ (Tin) | ACGIH |
| | | STEL | 0.2 mg/m ³ (Tin) | ACGIH |

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type | Control parameters | Basis |
|------------|---------|------------|--------------------|-------|
|------------|---------|------------|--------------------|-------|

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| | | (Form of exposure) | ters / Permissible concentration | |
|---|---------|--------------------|--------------------------------------|---------|
| Ethyl methyl ketoxime | 96-29-7 | TWA | 10 ppm | DCC OEL |
| Further information: Skin sensitisation | | | | |
| Ethanol | 64-17-5 | WES-TWA | 1,000 ppm 1,880 mg/m ³ | NZ OEL |
| | | STEL | 1,000 ppm | ACGIH |

Engineering measures : Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined ammonia/amines and organic vapour type

Hand protection
Material : Impervious gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : white, translucent

Odour : slight

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| | |
|---|--|
| Odour Threshold | : No data available |
| pH | : Not applicable |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : Not applicable |
| Flash point | : Not applicable |
| Evaporation rate | : Not applicable |
| Flammability (solid, gas) | : Not classified as a flammability hazard |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : Not applicable |
| Relative vapour density | : No data available |
| Relative density | : 1.03 |
| Solubility(ies) | |
| Water solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | |
| Viscosity, dynamic | : Not applicable |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |
| Molecular weight | : No data available |

SECTION 10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | : Not classified as a reactivity hazard. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : Use at elevated temperatures may form highly hazardous compounds. |

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Can react with strong oxidizing agents.
Hazardous decomposition products will be formed upon contact with water or humid air.
Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid : Exposure to moisture

Incompatible materials : Oxidizing agents
Water

Hazardous decomposition products

Contact with water or humid air : Ethyl methyl ketoxime
Ethanol

Thermal decomposition : Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Components:**Silicon dioxide:**

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Information taken from reference works and the literature.

Methyltri(ethylmethylketoxime)silane:

Acute oral toxicity : LD50 (Rat): > 2,520 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

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Remarks: Based on test data

Vinyltri (methylethylketoxime) silane:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on test data

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on test data

3-Aminopropyltriethoxysilane:

Acute oral toxicity : LD50 (Rat): 1.57 ml/kg
Remarks: Based on test data

Acute dermal toxicity : LD50 (Rabbit): 4.29 ml/kg
Remarks: Information taken from reference works and the literature.

Ethyl methyl ketoxime:

Acute oral toxicity : LD50 (Rat): 2,326 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 4.83 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 1,000 - 1,800 mg/kg

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Acute oral toxicity : LD50 (Rat): 894 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Components:**Silicon dioxide:**

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

Methyltri(ethylmethylketoxime)silane:

Species: Rabbit

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Result: No skin irritation
Remarks: Based on data from similar materials

3-Aminopropyltriethoxysilane:

Species: Rabbit
Result: Corrosive after 3 minutes to 1 hour of exposure
Remarks: Based on test data

Ethyl methyl ketoxime:

Species: Rabbit
Result: No skin irritation

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation

Irritating to eyes.

Components:**Silicon dioxide:**

Result: No eye irritation
Remarks: Information taken from reference works and the literature.

Methyltri(ethylmethylketoxime)silane:

Species: Rabbit
Result: Irritation to eyes, reversing within 7 days
Remarks: Based on test data

Vinyltri (methylethylketoxime) silane:

Species: Rabbit
Result: Irreversible effects on the eye
Remarks: Based on test data

3-Aminopropyltriethoxysilane:

Species: Rabbit
Result: Irreversible effects on the eye
Remarks: Based on test data

Ethyl methyl ketoxime:

Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation: May cause sensitisation by skin contact.
Respiratory sensitisation: Not classified based on available information.

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Components:**Silicon dioxide:**

Assessment: Does not cause skin sensitisation.

Test Type: Skin: test type not specified

Species: Guinea pig

Remarks: No known sensitising effect.

Information taken from reference works and the literature.

Methyltri(ethylmethylketoxime)silane:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: Based on test data

Vinyltri (methylethylketoxime) silane:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: Causes sensitisation.

Based on data from similar materials

3-Aminopropyltriethoxysilane:

Assessment: Probability or evidence of skin sensitisation in humans

Test Type: Buehler Test

Species: Guinea pig

Remarks: Causes sensitisation.

Based on test data

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: No known sensitising effect.

Based on test data

Ethyl methyl ketoxime:

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**Silicon dioxide:**

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Genotoxicity in vitro : Result: negative
Remarks: Information taken from reference works and the literature.

Genotoxicity in vivo : Application Route: Ingestion
Result: negative
Remarks: Information taken from reference works and the literature.

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Methyltri(ethylmethylketoxime)silane:

Genotoxicity in vitro : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Result: negative
Remarks: Based on test data

Vinyltri (methylethylketoxime) silane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative
Remarks: Based on test data

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

3-Aminopropyltriethoxysilane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data

: Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on test data

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Result: negative
Remarks: Based on test data

: Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: negative
Remarks: Based on test data

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

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Remarks: Based on test data

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

Ethyl methyl ketoxime:

Genotoxicity in vitro : Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: Ingestion
Result: negative

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Not classified based on available information.

Components:**3-Aminopropyltriethoxysilane:**

Species: Mouse
Application Route: Skin contact
Result: negative
Remarks: Based on test data

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Ethyl methyl ketoxime:

Species: Rat
Application Route: inhalation (vapour)
Exposure time: 26 Months
Result: positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:**Methyltri(ethylmethylketoxime)silane:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: Ingestion
Symptoms: No effects on fertility

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Remarks: Based on test data

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: Ingestion
Symptoms: No effects on foetal development
Remarks: Based on test data

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

3-Aminopropyltriethoxysilane:

Effects on fertility : Species: Rat, male and female
Application Route: Ingestion
Symptoms: No effects on fertility
Remarks: Based on test data

Effects on foetal development : Test Type: Prenatal development toxicity study (teratogenicity)
Species: Rat
Application Route: Ingestion
Symptoms: No effects on foetal development
Remarks: Based on test data

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Ethyl methyl ketoxime:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Components:**Ethyl methyl ketoxime:**

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

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Methyltri(ethylmethylketoxime)silane:

Exposure routes: Ingestion

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Vinyltri (methylethylketoxime) silane:

Exposure routes: Ingestion

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

3-Aminopropyltriethoxysilane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes: inhalation (dust/mist/fume)

Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Ethyl methyl ketoxime:

Exposure routes: Ingestion

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Exposure routes: inhalation (vapour)

Target Organs: Blood

Assessment: Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.

Dimethylbis[(1-oxodecyl)oxy]stannane:

Exposure routes: Ingestion

Target Organs: Immune system, Central nervous system

Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Repeated dose toxicity**Components:****Methyltri(ethylmethylketoxime)silane:**

Species: Rat

Application Route: Ingestion

Target Organs: Blood

Remarks: Based on test data

Vinyltri (methylethylketoxime) silane:

Species: Rat

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Application Route: Ingestion
Target Organs: Blood
Remarks: Based on data from similar materials

3-Aminopropyltriethoxysilane:

Species: Rat
Application Route: Ingestion
Remarks: Based on test data

Species: Rat
Application Route: inhalation (dust/mist/fume)
Remarks: Based on test data

Species: Rabbit
Application Route: Skin contact
Remarks: Based on data from similar materials

Ethyl methyl ketoxime:

Species: Rat
LOAEL: 0.36 mg/l
Application Route: inhalation (vapour)
Exposure time: 28 d

Species: Rat
NOAEL: 4 mg/l
LOAEL: 20 mg/kg
Application Route: Ingestion
Exposure time: 28 d

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rat
NOAEL: < 1.6 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumour rates.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:**

Methyltri(ethylmethylketoxime)silane:

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 120 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials
- Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 94 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials
- Ecotoxicology Assessment
Acute aquatic toxicity : This product has no known ecotoxicological effects.
- 3-Aminopropyltriethoxysilane:**
- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 934 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp.): 331 mg/l
Exposure time: 48 h
- Toxicity to algae : ErC50 (Scenedesmus subspicatus): > 1,000 mg/l
Exposure time: 72 h
- Ethyl methyl ketoxime:**
- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 201 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 11.8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Scenedesmus capricornutum (fresh water algae)): 2.56 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
- Toxicity to bacteria : EC50 (Pseudomonas putida): 281 mg/l
Exposure time: 17 h

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Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Persistence and degradability**Components:****Methyltri(ethylmethylketoxime)silane:**

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 14.5 %
Exposure time: 21 d
Method: OECD Test Guideline 302B
Remarks: Based on data from similar materials

Vinyltri (methylethylketoxime) silane:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 s

3-Aminopropyltriethoxysilane:

Stability in water : Degradation half life: 8.5 h pH: 7

Ethyl methyl ketoxime:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 27 %
Exposure time: 21 d
Method: OECD Test Guideline 301C

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential**Components:****Methyltri(ethylmethylketoxime)silane:**Partition coefficient: n-
octanol/water : log Pow: 11.2**3-Aminopropyltriethoxysilane:**

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): < 100

Partition coefficient: n-
octanol/water : log Pow: -2.85**Ethyl methyl ketoxime:**

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 0.5 - 0.6
Method: OECD Test Guideline 305

Partition coefficient: n-
octanol/water : log Pow: 0.63

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Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations

NZS 5433

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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

HSNO Approval Number

HSR002670

HSNO Controls

Approved handler certificate not required.

HSNO tracking not required.

Refer to EPA user guide to the HSNO control regulations for further information.

The components of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified.

REACH : All ingredients (pre-)registered or exempt.

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- TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
- AICS : All ingredients listed or exempt.
- IECSC : All ingredients listed or exempt.
- PICCS : All ingredients listed or exempt.
- DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
- ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.
- NZIoC : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION**Further information**

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

DCC OEL : Dow Corning Guide

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

DCC OEL / TWA : Time weighted average

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEEL : Workplace Exposure Standard - Short-Term Exposure Limit

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guid-

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ance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NZ / EN