# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

## SECTION 1: Identification

### 1.1. Product identifier
3M™ Fire Barrier Water Tight Sealant 1000 NS

**Product Identification Numbers**

| | | | | |
|---|---|---|---|---|
| 98-0400-5276-7 | 98-0400-5277-5 | 98-0400-5278-3 | 98-0400-5280-9 | 98-0400-5286-6 |
| 98-0400-5287-4 | 98-0400-5555-4 | JE-4100-2480-4 | XE-1014-9424-5 | XE-1014-9429-4 |

### 1.2. Recommended use and restrictions on use

**Intended Use**
Fire Protection

**Specific Use**
This product is a watertight sealant that will help control the spread of fire, smoke and noxious gases.

**Restrictions on use**
Not applicable

### 1.3. Supplier's details

| | |
|---|---|
| **Company:** | 3M Canada Company |
| **Division:** | Industrial Adhesives and Tapes Division |
| **Address:** | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| **Telephone:** | (800) 364-3577 |
| **Website:** | www.3M.ca |

### 1.4. Emergency telephone number
Medical Emergency Telephone:1-800-3M HELPS / 1800 364 3577

## SECTION 2: Hazard identification

The following product identification number(s) are sold in the consumer market place:
XE-1014-9424-5

### 2.1. Classification of the substance or mixture
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.

Carcinogenicity: Category 1B.
Specific Target Organ Toxicity (repeated exposure): Category 2.

**2.2. Label elements**
**Signal word**
Danger

**Symbols**
Exclamation mark |Health Hazard |

**Pictograms**

**Hazard Statements**

Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer.

May cause damage to organs through prolonged or repeated exposure: blood or blood-forming organs | respiratory system.

**Precautionary statements**
**General:**
Keep out of reach of children.

**Prevention:**
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and respiratory protection.

**Response:**
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical advice. Take off contaminated clothing and wash it before reuse.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

**2.3. Other hazards**
None known.

2% of the mixture consists of ingredients of unknown acute oral toxicity.
2% of the mixture consists of ingredients of unknown acute dermal toxicity.
2% of the mixture consists of ingredients of unknown acute inhalation toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---|---|---|---|
| Calcium Carbonate | 1317-65-3 | 15 - 40 | Limestonests primarily of calcium carbonate. |
| Poly(Dimethylsiloxane) | 63148-62-9 | 15 - 40 | Siloxanes and Silicones, di-Me |
| Siloxanes and Silcones, Di-Me, Hydroxy-Terminated | 70131-67-8 | 15 - 40 | Siloxanes and Silicones, di-Me, hydroxy-terminated |
| Ketoxime Silane | 22984-54-9 | 3 - 7 Trade Secret * | 2-Butanone, O,O',O''-(methylsilylidyne)trioxime |
| Amorphous Silica | 7631-86-9 | 0.5 - 5 | Silica |
| Pigments | Mixture | 1 - 2 | Not Applicable |
| Methyl ethyl ketone oxime | 96-29-7 | 0.01 - 1.2 | No Data Available |
| (Trimethoxysilylpropyl)Ethylene diamine | 1760-24-3 | 0.1 - 1 Trade Secret * | 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]- |
| Octamethylcyclotetrasiloxane | 556-67-2 | < 0.1 | Octamethylcyclotetrasiloxane |

Pigments is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

*The concentration (exact or range) of this component has been withheld as a trade secret.

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation:**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If Swallowed:**
Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Unsuitable extinguishing media**
None Determined

**5.3. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Oxides of Nitrogen | During Combustion |

**5.4. Special protection actions for fire-fighters**
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice.

**6.2. Environmental precautions**
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store locked up.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 1317-65-3 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly | 1317-65-3 | ACGIH | TWA(respirable particles):3 | |

| | | | | |
|---|---|---|---|---|
| soluble) not otherwise specified, respirable particles | | | mg/m3 | |
| Octamethylcyclotetrasiloxane | 556-67-2 | AIHA | TWA:10 ppm | |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 7631-86-9 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 7631-86-9 | ACGIH | TWA(respirable particles):3 mg/m3 | |
| Methyl ethyl ketone oxime | 96-29-7 | AIHA | TWA:36 mg/m3(10 ppm) | Dermal Sensitizer |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety Glasses with side shields
Indirect Vented Goggles

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Solid |
| **Specific Physical Form:** | Paste |
| **Colour** | Gray |
| **Odour** | Low Silicone |
| **Odour threshold** | *No Data Available* |
| **pH** | *No Data Available* |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point** | *Not Applicable* |
| **Flash Point** | > 100 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | *Not Applicable* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapour Pressure** | < 666.6 Pa [@ 25 ºC ] |
| **Relative Vapour Density** | >=1 [*Ref Std:*AIR=1] |
| **Density** | 1.32 g/cm3 |
| **Relative density** | 1.31 - 1.33 [*Ref Std:*WATER=1] |
| **Water solubility** | Nil |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | *No Data Available* |
| **Volatile Organic Compounds** | <=4 % weight [*Test Method:*tested per EPA method 24] |
| **Percent volatile** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | <=53 g/l [*Test Method:*tested per EPA method 24] |
| **Molecular weight** | *No Data Available* |

| | |
|---|---|
| **Particle Characteristics** | *Not Applicable* |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
This material is considered to be non reactive under normal use conditions.

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Not determined

**10.5. Incompatible materials**
Strong acids
Strong bases
Strong oxidizing agents

**10.6. Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation:**
May cause additional health effects (see below).

**Skin Contact:**
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion:**
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells. Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

**Additional Information:**
Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |

| | | | |
|---|---|---|---|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Calcium Carbonate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Calcium Carbonate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3 mg/l |
| Calcium Carbonate | Ingestion | Rat | LD50 6,450 mg/kg |
| Siloxanes and Silcones, Di-Me, Hydroxy-Terminated | Dermal | Rabbit | LD50 > 16,000 mg/kg |
| Siloxanes and Silcones, Di-Me, Hydroxy-Terminated | Ingestion | Rat | LD50 > 64,000 mg/kg |
| Poly(Dimethylsiloxane) | Dermal | Multiple animal species | LD50 > 2,000 mg/kg |
| Poly(Dimethylsiloxane) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Ketoxime Silane | Dermal | Rat | LD50 > 2,000 mg/kg |
| Ketoxime Silane | Ingestion | Rat | LD50 2,260 mg/kg |
| Methyl ethyl ketone oxime | Dermal | official classification | LD50 1,100 mg/kg |
| Methyl ethyl ketone oxime | Ingestion | official classification | LD50 100 mg/kg |
| Methyl ethyl ketone oxime | Inhalation-Vapor | Rat | LC50 estimated to be 20 - 50 mg/l |
| (Trimethoxysilylpropyl)Ethylenediamine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| (Trimethoxysilylpropyl)Ethylenediamine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 >1.49, <2.44 mg/l |
| (Trimethoxysilylpropyl)Ethylenediamine | Ingestion | Rat | LD50 1,897 mg/kg |
| Octamethylcyclotetrasiloxane | Dermal | Rat | LD50 > 2,400 mg/kg |
| Octamethylcyclotetrasiloxane | Inhalation-Dust/Mist (4 hours) | Rat | LC50 36 mg/l |
| Octamethylcyclotetrasiloxane | Ingestion | Rat | LD50 > 4,800 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Calcium Carbonate | Rabbit | No significant irritation |
| Poly(Dimethylsiloxane) | Human and animal | No significant irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| Ketoxime Silane | Rabbit | No significant irritation |
| Methyl ethyl ketone oxime | Rabbit | Irritant |
| (Trimethoxysilylpropyl)Ethylenediamine | Rabbit | Mild irritant |
| Octamethylcyclotetrasiloxane | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Calcium Carbonate | Rabbit | No significant irritation |
| Poly(Dimethylsiloxane) | Rabbit | No significant irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| Ketoxime Silane | Rabbit | Moderate irritant |
| Methyl ethyl ketone oxime | Rabbit | Corrosive |
| (Trimethoxysilylpropyl)Ethylenediamine | Rabbit | Corrosive |
| Octamethylcyclotetrasiloxane | Rabbit | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Poly(Dimethylsiloxane) | Human and animal | Not classified |
| Amorphous Silica | Human and animal | Not classified |
| Ketoxime Silane | Guinea pig | Sensitizing |
| Methyl ethyl ketone oxime | Guinea pig | Sensitizing |
| (Trimethoxysilylpropyl)Ethylenediamine | Multiple animal species | Sensitizing |
| Octamethylcyclotetrasiloxane | Human and animal | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Siloxanes and Silcones, Di-Me, Hydroxy-Terminated | In Vitro | Not mutagenic |
| Poly(Dimethylsiloxane) | In Vitro | Not mutagenic |
| Poly(Dimethylsiloxane) | In vivo | Not mutagenic |
| Amorphous Silica | In Vitro | Not mutagenic |
| Ketoxime Silane | In Vitro | Not mutagenic |
| Methyl ethyl ketone oxime | In Vitro | Not mutagenic |
| Methyl ethyl ketone oxime | In vivo | Not mutagenic |
| (Trimethoxysilylpropyl)Ethylenediamine | In Vitro | Not mutagenic |
| (Trimethoxysilylpropyl)Ethylenediamine | In vivo | Not mutagenic |
| Octamethylcyclotetrasiloxane | In vivo | Not mutagenic |
| Octamethylcyclotetrasiloxane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Poly(Dimethylsiloxane) | Dermal | Mouse | Not carcinogenic |
| Poly(Dimethylsiloxane) | Ingestion | Mouse | Not carcinogenic |
| Amorphous Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Methyl ethyl ketone oxime | Inhalation | Multiple animal species | Carcinogenic |
| Octamethylcyclotetrasiloxane | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Calcium Carbonate | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | premating & during gestation |
| Poly(Dimethylsiloxane) | Ingestion | Not classified for development | Rat | NOAEL 3,800 mg/kg/day | during organogenesis |
| Poly(Dimethylsiloxane) | Dermal | Not classified for development | Rabbit | NOAEL 1,000 mg/kg/day | during organogenesis |
| Amorphous Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 | 1 generation |

| | | | | | |
|---|---|---|---|---|---|
| | | | | mg/kg/day | |
| Amorphous Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Ketoxime Silane | Ingestion | Not classified for female reproduction | Rat | NOAEL 250 mg/kg/day | premating into lactation |
| Ketoxime Silane | Ingestion | Not classified for male reproduction | Rat | NOAEL 250 mg/kg/day | 28 days |
| Ketoxime Silane | Ingestion | Not classified for development | Rat | NOAEL 250 mg/kg/day | premating into lactation |
| Methyl ethyl ketone oxime | Ingestion | Not classified for female reproduction | Rat | NOAEL 200 mg/kg/day | 2 generation |
| Methyl ethyl ketone oxime | Ingestion | Not classified for male reproduction | Rat | NOAEL 200 mg/kg/day | 2 generation |
| Methyl ethyl ketone oxime | Ingestion | Not classified for development | Rat | NOAEL 600 mg/kg/day | during organogenesis |
| (Trimethoxysilylpropyl)Ethylenediamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | premating into lactation |
| (Trimethoxysilylpropyl)Ethylenediamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 28 days |
| (Trimethoxysilylpropyl)Ethylenediamine | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | during gestation |
| Octamethylcyclotetrasiloxane | Inhalation | Not classified for male reproduction | Rat | NOAEL 8.5 mg/l | 2 generation |
| Octamethylcyclotetrasiloxane | Inhalation | Not classified for development | Rabbit | NOAEL 6 mg/l | during organogenesis |
| Octamethylcyclotetrasiloxane | Ingestion | Not classified for development | Rabbit | NOAEL 100 mg/kg | during organogenesis |
| Octamethylcyclotetrasiloxane | Inhalation | Toxic to female reproduction | Rat | NOAEL 3.6 mg/l | 2 generation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| Ketoxime Silane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Methyl ethyl ketone oxime | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Methyl ethyl ketone oxime | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL 100 mg/kg | |
| (Trimethoxysilylpropyl)Ethylenediamine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Poly(Dimethylsiloxane) | Ingestion | eyes | Not classified | Rat | NOAEL 10% | 90 days |
| Poly(Dimethylsiloxane) | Ingestion | respiratory system | Not classified | Rat | NOAEL 1% | 90 days |
| Poly(Dimethylsiloxane) | Ingestion | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 10% | 90 days |
| Poly(Dimethylsiloxane) | Ingestion | hematopoietic | Not classified | Rat | NOAEL 10% | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | system | | | | |
| Poly(Dimethylsiloxane) | Ingestion | heart \| liver \| kidney and/or bladder \| vascular system | Not classified | Rat | NOAEL 1% | 90 days |
| Amorphous Silica | Inhalation | respiratory system \| silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Ketoxime Silane | Ingestion | hematopoietic system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 10 mg/kg/day | 28 days |
| Ketoxime Silane | Ingestion | endocrine system \| liver \| nervous system \| kidney and/or bladder | Not classified | Rat | NOAEL 250 mg/kg/day | 28 days |
| Methyl ethyl ketone oxime | Inhalation | hematopoietic system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.36 mg/l | 28 days |
| Methyl ethyl ketone oxime | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Mouse | NOAEL 0.01 mg/l | 90 days |
| Methyl ethyl ketone oxime | Inhalation | liver | Not classified | Rat | NOAEL 1.44 mg/l | 28 days |
| Methyl ethyl ketone oxime | Ingestion | hematopoietic system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 25 mg/kg/day | 90 days |
| Methyl ethyl ketone oxime | Ingestion | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 100 mg/kg/day | 90 days |
| Methyl ethyl ketone oxime | Ingestion | nervous system | Not classified | Rat | NOAEL 400 mg/kg/day | 90 days |
| Methyl ethyl ketone oxime | Ingestion | liver \| kidney and/or bladder \| heart \| endocrine system \| bone, teeth, nails, and/or hair \| immune system | Not classified | Rat | NOAEL 335 mg/kg/day | 90 days |
| (Trimethoxysilylpropyl)Ethylenediamine | Dermal | skin \| endocrine system \| hematopoietic system \| kidney and/or bladder | Not classified | Rat | NOAEL 1,545 mg/kg/day | 11 days |
| (Trimethoxysilylpropyl)Ethylenediamine | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.015 mg/l | 90 days |
| (Trimethoxysilylpropyl)Ethylenediamine | Inhalation | hematopoietic system \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 0.044 mg/l | 90 days |
| (Trimethoxysilylpropyl)Ethylenediamine | Ingestion | hematopoietic system \| nervous system | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| Octamethylcyclotetrasiloxane | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 960 mg/kg/day | 3 weeks |
| Octamethylcyclotetrasiloxane | Inhalation | liver | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| Octamethylcyclotetrasiloxane | Inhalation | endocrine system \| immune system \| kidney and/or bladder | Not classified | Rat | NOAEL 8.5 mg/l | 2 generation |
| Octamethylcyclotetrasiloxane | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| Octamethylcyclotetrasiloxane | Ingestion | liver | Not classified | Rat | NOAEL 1,600 mg/kg/day | 2 weeks |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

## SECTION 12: Ecological information

No data available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

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

**Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

## SECTION 16: Other information

**National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.**
**Health:** 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include

the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**HMIS Hazard Classification**

**Health:** *2 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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**3M Canada SDSs are available at www.3M.ca**