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Material Safety Data Sheet

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Document id : 08-8510-3 Issue date : 2015/05/28
Version : 22.00 Supersedes date : 2015/05/04

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Prepared by: Corporate Regulatory Services, 3M Canada Company
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1 Chemical Product and Company Identification

Tradename:

3M(TM) FIRE BARRIER WATER TIGHT SEALANT 1000 NS AND 1003 SL

Product ID:

98-0400-5276-7	XE-1014-8923-7	XE-1014-9444-3	XE-1014-8922-9
XE-1014-9424-5	XE-1014-9429-4	98-0400-5277-5	98-0400-5278-3
98-0400-5279-1	98-0400-5280-9	98-0400-5281-7	98-0400-5351-8
98-0400-5352-6	98-0400-5286-6	98-0400-5287-4	98-0400-5554-7
98-0400-5555-4	JE-4100-2480-4		

Intended Use of Product:

Fire Protection

Division:

INDUSTRIAL ADHESIVES AND TAPES

2 Hazards Identification

Critical Hazards:

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

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
CALCIUM CARBONATE	1317-65-3	15 - 40
SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED	70131-67-8	15 - 40
POLY(DIMETHYLSILOXANE)	63148-62-9	15 - 40
KETOXIME SILANE	22984-54-9	3 - 7
AMORPHOUS SILICA	7631-86-9	1 - 5
(TRIMETHOXSILYL)PROPYL	1760-24-3	0.5 - 1.0
ETHYLENEDIAMINE		
OCTAMETHYLCYCLOTETRA-SILOXANE	556-67-2	0.1 - 0.2
QUARTZ SILICA	14808-60-7	0.1 - 0.2

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

4 First Aid Measures

Instructions for Eye Contact:

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

Instructions for Skin Contact:

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

Instructions for Inhalation:

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

Instructions for Ingestion:

Rinse mouth. If you feel unwell, get medical attention.

Special Instructions:

Not applicable

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5 Fire Fighting Measures

Flash point: > 100 C CC

Lower Explosive Limit (%): Not applicable

Upper Explosive Limit (%): Not applicable

Autoignition temperature: Not Available

Suitable Extinguishing Media:

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

Exposure Hazards during Fire:

No data available.

Combustion Products from Fire:

Formaldehyde - During Combustion;

Carbon dioxide - During Combustion;

Oxides of Nitrogen - During Combustion;

This product may release methyl ethyl ketoxime (CAS 96-29-7) during curing and/or when exposed to water or humid air.

Unusual Fire and Explosion Hazards

None inherent in this product.

Fire Fighting Procedures:

No unusual fire or explosion hazards are anticipated. Evacuate area.

NFPA: Health 2

NFPA: Fire 1

NFPA: Reactivity 0

NFPA: Unusual Reaction Hazard

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.

6 Accidental Release Measures

Personal Precautions:

Ventilate the area with fresh air. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental Procedures

No data available.

Methods for 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.

Special Instructions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from acids; Store away from strong bases. Store away from oxidizing agents.

Ventilation:

No data available.

Explosion Prevention:

Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

Use Instructions:

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/vapors/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.

Use personal protective equipment (gloves, respirators, etc.) as required.

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8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

The following should be worn alone or in combination, as

appropriate, to prevent eye contact: Indirect vented goggles;

Hand Protection:

The following glove material(s) are recommended:

polyethylene/ethylene vinyl alcohol;

Skin Protection:

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. The following protective clothing material(s) are recommended: Apron - Polyethylene/ethylene vinyl alcohol

Respiratory Protection:

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters

Ingestion (Prevention):

No data available.

Recommended Ventilation:

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/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

CALCIUM CARBONATE (1317-65-3)

Specific Ingredient Data

No data available.

LD50 (rat, oral) 6450 mg/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH: TWA 10 mg/m3 (Particulates not otherwise classified)

SILOXANES AND SILICONES, DI-ME, HYDROXY-TERMINATED (70131-67-8)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

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POLY(DIMETHYLSILOXANE) (63148-62-9)

Specific Ingredient Data

No data available.

LD50 (rat, oral) > 17 g/kg

LD50 (dermal, rabbit) > 2 g/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

KETOXIME SILANE (22984-54-9)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

AMORPHOUS SILICA (7631-86-9)

Specific Ingredient Data

LC50 (inhalation, rat, dust/1 hour): 1260 - 2830 mg/m3

LD50 (rat, oral) 3160 mg/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

CMRG: TWA 3 mg/m3 as respirable dust

(TRIMETHOXYSILYLPROPYL)ETHYLENEDIAMINE (1760-24-3)

LD50 (rat, oral) 7460 mg/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral) > 64 mg/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

CMRG: TWA; 10 ppm

QUARTZ SILICA (14808-60-7)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

ACGIH-TWA: 0.025 mg/m3 (respirable fraction)

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9 Physical and Chemical Properties

Physical form, Color, Odour: Solid;
paste;
Thixotropic Caulk light grey;
low odour;

Odour Threshold: No data available.

pH: No data available.

Boiling point/boiling range: No data available.

Melting point/melting range: Not Available

Vapour pressure: < 5 mmHg at 25 C

Water Solubility: Nil

Partition coefficient (K o/w): Not Available

Specific gravity:	1.31 - 1.33 Water=1
Vapour density:	No data available.
Volatile organic compounds:	< 3 %
Evaporation rate:	No data available.
Viscosity:	No data available.
Percent Volatile:	<= 3.8 % by weight

10 Stability and Reactivity

Conditions to Avoid:

Not determined

Materials to Avoid:

Strong acids;

Strong bases;

Strong oxidizing agents;

Hazardous Decomposition:

Formaldehyde - During Combustion;

Carbon dioxide - During Combustion;

Oxides of Nitrogen - During Combustion;

This product may release methyl ethyl ketoxime (CAS 96-29-7) during curing and/or when exposed to water or humid air.

Stability and Reactivity:

Hazardous polymerization will not occur. Stable. This material is considered to be non reactive under normal use conditions.

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11 Toxicological Information

Effects from Eye Contact:

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

Effects from Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

No health effects are expected.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause target organ effects after ingestion.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

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12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

13 Disposal Considerations

Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Non-Regulated Material

Special Information:

15 Regulatory Information

WHMIS Classification: D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

AICS - Australian Inventory of Chemical Substances

DSL - Domestic Substances List (Canada)

CICS - Chinese Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

KECI - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

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16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 2 - Hazards Identification - Critical Hazards

Section 3 - Composition/Information on Ingredients

Section 5 - Fire Fighting Measures

Section 10 - Stability and Reactivity;

Section 11 - Toxicological Information;

Section 12 - Ecological Information

Section 13 - Disposal Information;

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