



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™ Dyneon™ Fluoroelastomer FC 2122

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| LB-F100-2604-8 | 41-2800-1467-5 | 98-0211-9663-3 | 98-0211-9664-1 | 98-0211-9665-8 |
| ZF-0002-0218-2 | ZF-0002-1202-5 | ZF-0002-1479-9 | | |

1.2. Recommended use and restrictions on use

Intended Use

Fluoroelastomer

Restrictions on use

Not applicable

1.3. Supplier's details

| | |
|-------------------|--|
| Company: | 3M Canada Company |
| Division: | Advanced Materials 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 / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

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 damage fertility or the unborn child.

Precautionary statements**Prevention:**

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

Response:

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

Storage:

Store locked up.

Disposal:

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

2.3. Other hazards

May cause thermal burns. vapours liberated during processing may be hazardous if inhaled. Eye, nose, throat and lung irritation can occur from such vapours.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|--|-------------|--------------------------|--|
| Vinylidene Fluoride - Hexafluoropropylene Polymer | 9011-17-0 | 90 - 99 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2Cl2) | 921213-47-0 | 0.5 - 1.5 Trade Secret * | Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2Cl2) |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | 1478-61-1 | 0.1 - 1 Trade Secret * | Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis- |
| 4,4'-DICHLORODIPHENYL SULFONE | 80-07-9 | < 1 | Benzene, 1,1'-sulfonylbis[4-chloro- |

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| | | | |
|-----------|-----------|------------------------|-------------------------------------|
| Silica | 7631-86-9 | < 1 | Silica |
| Sulfolane | 126-33-0 | 0.1 - 1 Trade Secret * | Thiophene, tetrahydro-, 1,1-dioxide |

*The actual concentration of this ingredient 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 flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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. Special hazards arising from the substance or mixture

Exposure to extreme heat can give rise to thermal decomposition.

5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, 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

Evacuate area. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

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

Avoid skin contact with hot material. Store work clothes separately from other clothing, food and tobacco products. 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. Wash contaminated clothing before reuse. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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. Local exhaust required above 400 C.

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:

Full Face Shield

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

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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:

During heating:

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

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.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------|
| Physical state | Solid |
| Specific Physical Form: | Solid Block or Slab |
| Colour | Straw, White |
| Odour | Odourless |
| Odour threshold | <i>No Data Available</i> |
| pH | <i>Not Applicable</i> |
| Melting point/Freezing point | <i>Not Applicable</i> |
| Boiling point | <i>Not Applicable</i> |
| Flash Point | No flash point |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Classified |
| Flammable Limits(LEL) | <i>Not Applicable</i> |
| Flammable Limits(UEL) | <i>Not Applicable</i> |
| Vapour Pressure | <i>Not Applicable</i> |
| Viscosity/Kinematic Viscosity Viscosity/Kinematic Viscosity | <i>Not Applicable</i> |
| Density | 1.8 g/cm ³ |
| Relative density | 1.8 [Ref Std: WATER=1] |
| Water solubility | Negligible |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |
| Autoignition temperature | <i>Not Applicable</i> |
| Decomposition temperature | <i>No Data Available</i> |
| Viscosity/Kinematic Viscosity | <i>Not Applicable</i> |
| Volatile Organic Compounds | <i>No Data Available</i> |
| Percent volatile | |
| VOC Less H₂O & Exempt Solvents | |
| Molecular weight | <i>No Data Available</i> |

Nanoparticles

This material does not contain nanoparticles.

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

None known.

10.5. Incompatible materials

Al or Mg powder and high/shear temperature conditions

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|-------------------------------|--------------------------|
| Carbon monoxide | At Elevated Temperatures |
| Carbon dioxide | At Elevated Temperatures |
| Hydrogen Fluoride | At Elevated Temperatures |
| Perfluoroisobutylene (PFIB) | At Elevated Temperatures |
| Oxides of Sulfur | At Elevated Temperatures |
| Toxic Vapor, Gas, Particulate | At Elevated Temperatures |

If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

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:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

During heating:

Polymer Fume Fever: Sign/symptoms may include chest pain or tightness, shortness of breath, cough, malaise, muscle aches, increased heart rate, fever, chills, sweats, nausea and headache.

Skin Contact:

During heating:

Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

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

Eye Contact:

During heating:

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Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.
 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:**Reproductive/Developmental Toxicity:**

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

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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Vinylidene Fluoride - Hexafluoropropylene Polymer | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Vinylidene Fluoride - Hexafluoropropylene Polymer | Ingestion | Rat | LD50 6,000 mg/kg |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Dermal | Rat | LD50 > 2,000 mg/kg |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Dermal | Rat | LD50 > 2,000 mg/kg |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 4,4'-DICHLORODIPHENYL SULFONE | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | Rat | LD50 4,810 mg/kg |
| Sulfolane | Dermal | Rabbit | LD50 4,897 mg/kg |
| Sulfolane | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 12 mg/l |
| Sulfolane | Ingestion | Rat | LD50 1,846 mg/kg |
| Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|---------|---------------------------|
| Vinylidene Fluoride - Hexafluoropropylene Polymer | Rabbit | No significant irritation |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Rabbit | No significant irritation |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Rabbit | No significant irritation |
| 4,4'-DICHLORODIPHENYL SULFONE | Rabbit | Minimal irritation |
| Sulfolane | Rabbit | Minimal irritation |
| Silica | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------|
| Vinylidene Fluoride - Hexafluoropropylene Polymer | Rabbit | Mild irritant |

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| | | |
|--|--------|---------------------------|
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Rabbit | Severe irritant |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Rabbit | Corrosive |
| 4,4'-DICHLORODIPHENYL SULFONE | Rabbit | Severe irritant |
| Sulfolane | Rabbit | Moderate irritant |
| Silica | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|--|------------------|----------------|
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Mouse | Sensitizing |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Guinea pig | Not classified |
| Sulfolane | Guinea pig | Not classified |
| Silica | 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 |
|--|----------|--|
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-DICHLORODIPHENYL SULFONE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Sulfolane | In Vitro | Not mutagenic |
| Silica | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-------------------------------|---------------|-------------------------|--|
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | Multiple animal species | Not carcinogenic |
| Silica | Not Specified | Mouse | 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 |
|--|-----------|--|---------|---------------------|--------------------------------|
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Ingestion | Not classified for reproduction and/or development | Rat | NOAEL 150 mg/kg/day | 28 days |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | prematuring into lactation |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Ingestion | Toxic to female reproduction | Rat | LOAEL 30 mg/kg/day | prematuring into lactation |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Ingestion | Toxic to male reproduction | Rat | LOAEL 30 mg/kg/day | 55 days |
| Sulfolane | Ingestion | Not classified for male reproduction | Rat | NOAEL 700 mg/kg/day | 14 days |
| Sulfolane | Ingestion | Not classified for female reproduction | Rat | NOAEL 200 mg/kg/day | prematuring & during gestation |
| Sulfolane | Ingestion | Toxic to development | Rat | NOAEL 60 mg/kg/day | prematuring & during |

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| | | | | | |
|--------|-----------|--|-----|-----------------------|----------------------|
| | | | | | gestation |
| Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|------------------------|--|------------------------|---------------------|-------------------|
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | 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 |
|--|------------|---|--|-------------------------|------------------------|-------------------|
| Vinylidene Fluoride - Hexafluoropropylene Polymer | Ingestion | liver | Not classified | Rat | NOAEL 10,000 mg/kg/day | 2 weeks |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2C12) | Ingestion | endocrine system liver kidney and/or bladder auditory system heart bone, teeth, nails, and/or hair bone marrow hematopoietic system immune system nervous system respiratory system vascular system | Not classified | Rat | NOAEL 150 mg/kg/day | 28 days |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Ingestion | heart endocrine system gastrointestinal tract hematopoietic system liver nervous system kidney and/or bladder | Not classified | Rat | NOAEL 100 mg/kg/day | 28 days |
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | hematopoietic system liver | Not classified | Rat | NOAEL 200 mg/kg/day | 14 weeks |
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 19 mg/kg/day | 14 weeks |
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | nervous system | Not classified | Rat | NOAEL 200 mg/kg/day | 14 weeks |
| Sulfolane | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 0.5 mg/l | 27 days |
| Sulfolane | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.02 mg/l | 90 days |
| Sulfolane | Inhalation | liver | Not classified | Monkey | LOAEL 0.5 mg/l | 27 days |
| Sulfolane | Inhalation | blood | Not classified | Guinea pig | NOAEL 0.16 mg/l | 90 days |
| Sulfolane | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 700 mg/kg/day | 28 days |
| Sulfolane | Ingestion | kidney and/or | Not classified | Rat | NOAEL 60 | 28 days |

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| | | | | | | |
|--------|------------|--------------------------------|----------------|-------|---------------------|-----------------------|
| | | bladder | | | mg/kg/day | |
| Silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |

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. Combustion products will include HF. Facility must be capable of handling halogenated materials. 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 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: 3 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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The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF PERFORMANCE, COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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