



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Fire Barrier Sealant FD 150+, Red

Product Identification Numbers

98-0400-5598-4, 98-0400-5599-2, 98-0400-5600-8, 98-0400-5601-6
7000140773, 7100040146, 7010320536, 7010400774

1.2. Recommended use and restrictions on use

Recommended use

Fire Protection, Caulk used as a passive fire protection.

1.3. Supplier's details

MANUFACTURER: 3M
DIVISION: Industrial Specialties Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Category 2.

Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms**Hazard Statements**

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Suspected of damaging fertility or the unborn child.

May cause cancer.

Causes damage to organs:

cardiovascular system |

nervous system |

kidney/urinary tract |

respiratory system |

Precautionary Statements**General:**

Keep out of reach of children.

If medical advice is needed, have product container or label at hand.

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/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Specific treatment (see Notes to Physician on this label).

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

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

Notes to Physician:

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

21% of the mixture consists of ingredients of unknown acute oral toxicity.

21% of the mixture consists of ingredients of unknown acute dermal toxicity.

24% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|-------------------|------------------------|
| Calcium Carbonate | 1317-65-3 | 40 - 60 Trade Secret * |
| Polymer NJTS Reg. No. 04499600-7189 | Trade Secret* | 10 - 20 Trade Secret * |
| Medium Aliphatic Solvent Naphtha | 64742-88-7 | 1 - 10 Trade Secret * |
| Water | 7732-18-5 | 1 - 10 Trade Secret * |
| Dibenzoate Propanol | 27138-31-4 | < 5 Trade Secret * |
| Ethylene Glycol | 107-21-1 | < 5 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | < 5 Trade Secret * |
| Iron Oxide | 1309-37-1 | 1 - 1.5 Trade Secret * |
| 2-Aminoisobutanol | 124-68-5 | < 1 Trade Secret * |
| Ethyl Hydroxyethyl Cellulose | 9004-58-4 | 0.1 - 1 Trade Secret * |
| Surfactant | Trade Secret* | 0.5 - 1 Trade Secret * |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | 55965-84-9 | < 0.5 Trade Secret * |
| Octhilinone | 26530-20-1 | < 0.5 Trade Secret * |
| Quartz Silica | 14808-60-7 | < 0.5 Trade Secret * |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

*The specific chemical identity and/or exact percentage (concentration) of this composition 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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

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. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Special protective 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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, 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

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. 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 in a well-ventilated place. Keep container tightly closed. Store away from oxidizing agents.

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 |
|-----------------|------------|--------|---|--------------------------------|
| Ethylene Glycol | 107-21-1 | ACGIH | TWA(Vapor fraction):25 ppm;STEL(Vapor fraction):50 ppm;STEL(Inhalable | A4: Not class. as human carcin |

| | | | | |
|---|------------|-------|---|------------------------------------|
| | | | aerosol):10 mg/m3 | |
| Iron Oxide | 1309-37-1 | ACGIH | TWA(respirable fraction):5 mg/m3 | A4: Not class. as human carcin |
| Iron Oxide | 1309-37-1 | OSHA | TWA(as fume):10 mg/m3 | |
| Calcium Carbonate | 1317-65-3 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 1317-65-3 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 1317-65-3 | ACGIH | TWA(respirable particles):3 mg/m3 | |
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3 | A3: Confirmed animal carcin. |
| Titanium Dioxide | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m3 | |
| Quartz Silica | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m3 | A2: Suspected human carcin. |
| Quartz Silica | 14808-60-7 | OSHA | TWA Table Z-1(respirable):0.05 mg/m3;TWA Table Z-3(respirable):0.1 mg/m3;TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.) | |
| Kerosine (petroleum) | 64742-88-7 | ACGIH | TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m3 | A3: Confirmed animal carcin., SKIN |
| Naphtha | 64742-88-7 | OSHA | TWA:400 mg/m3(100 ppm) | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

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/vapors/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 vapors 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

Appearance

Physical state

Solid

Color

Red

Specific Physical Form:

Paste

Odor

Low Acrylic

Odor threshold

No Data Available

pH

8 - 9

Melting point

No Data Available

Boiling Point

Not Applicable

Flash Point

No flash point

Evaporation rate

1 [Ref Std:BUOAC=1]

Flammability (solid, gas)

Not Classified

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

Vapor Pressure

0.18 mmHg

Vapor Density

[Details:Lighter than air]*No Data Available*

Density

1.52 g/ml

Specific Gravity

1.52 [Ref Std:WATER=1]

Solubility in Water

Miscible [Details:Miscible in wet stage]

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

Not Applicable

Decomposition temperature

No Data Available

Viscosity

No Data Available

Volatile Organic Compounds

< 15 % weight

VOC Less H2O & Exempt Solvents

< 250 g/l

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

Strong oxidizing agents

10.6. Hazardous decomposition products**Substance****Condition**

Carbon monoxide

Not Specified

Carbon dioxide

Not Specified

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).

Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

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:**Single exposure may cause target organ effects:**

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

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| <u>Ingredient</u> | <u>CAS No.</u> | <u>Class Description</u> | <u>Regulation</u> |
|---|-----------------------|---------------------------------|---|
| Silica, Crystalline (Respirable Size) | 14808-60-7 | Known To Be Human Carcinogen. | National Toxicology Program Carcinogens |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

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

| <u>Name</u> | <u>Route</u> | <u>Species</u> | <u>Value</u> |
|----------------------------------|--------------------------------|-----------------------|--|
| 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 |
| Medium Aliphatic Solvent Naphtha | Inhalation-Vapor | | LC50 estimated to be 20 - 50 mg/l |
| Medium Aliphatic Solvent Naphtha | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Medium Aliphatic Solvent Naphtha | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Dibenzoate Propanol | Dermal | Rat | LD50 > 2,000 mg/kg |
| Dibenzoate Propanol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 200 mg/l |
| Dibenzoate Propanol | Ingestion | Rat | LD50 3,295 mg/kg |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.09 mg/l |
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Ethylene Glycol | Ingestion | Human | LD50 1,600 mg/kg |
| Ethylene Glycol | Inhalation-Dust/Mist (4 hours) | Other | LC50 estimated to be 5 - 12.5 mg/l |
| Ethylene Glycol | Dermal | Rabbit | 9,530 mg/kg |
| Iron Oxide | Dermal | Not available | LD50 3,100 mg/kg |
| Iron Oxide | Ingestion | Not available | LD50 3,700 mg/kg |
| Ethyl Hydroxyethyl Cellulose | Dermal | | LD50 estimated to be > 5,000 mg/kg |

| | | | |
|---|--------------------------------|--------|------------------------------------|
| Ethyl Hydroxyethyl Cellulose | Ingestion | Rat | LD50 > 10,000 mg/kg |
| 2-Aminoisobutanol | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 2-Aminoisobutanol | Ingestion | Rat | LD50 2,900 mg/kg |
| Quartz Silica | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Quartz Silica | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Dermal | Rabbit | LD50 87 mg/kg |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.171 mg/l |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Ingestion | Rat | LD50 40 mg/kg |
| Octhilnone | Dermal | Rabbit | LD50 311 mg/kg |
| Octhilnone | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.27 mg/l |
| Octhilnone | Ingestion | Rat | LD50 125 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------------------|---------------------------|
| Calcium Carbonate | Rabbit | No significant irritation |
| Medium Aliphatic Solvent Naphtha | Rabbit | Irritant |
| Dibenzoate Propanol | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| Ethylene Glycol | Rabbit | Minimal irritation |
| Iron Oxide | Rabbit | No significant irritation |
| Ethyl Hydroxyethyl Cellulose | Professional judgment | Minimal irritation |
| 2-Aminoisobutanol | Rabbit | Irritant |
| Quartz Silica | Professional judgment | No significant irritation |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Rabbit | Corrosive |
| Octhilnone | Rabbit | Corrosive |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| Calcium Carbonate | Rabbit | No significant irritation |
| Medium Aliphatic Solvent Naphtha | Rabbit | No significant irritation |
| Dibenzoate Propanol | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| Ethylene Glycol | Rabbit | Mild irritant |
| Iron Oxide | Rabbit | No significant irritation |
| Ethyl Hydroxyethyl Cellulose | Professional judgment | Mild irritant |
| 2-Aminoisobutanol | Rabbit | Corrosive |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Rabbit | Corrosive |
| Octhilnone | similar health hazards | Corrosive |

Skin Sensitization

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

| | | |
|---|------------------|----------------|
| Medium Aliphatic Solvent Naphtha | Guinea pig | Not classified |
| Dibenzoate Propanol | Guinea pig | Not classified |
| Titanium Dioxide | Guinea pig | Not classified |
| Ethylene Glycol | Human | Not classified |
| Iron Oxide | Human | Not classified |
| 2-Aminoisobutanol | Guinea pig | Not classified |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Human and animal | Sensitizing |
| Octhilinone | Human and animal | Sensitizing |

Photosensitization

| Name | Species | Value |
|---|------------------|-----------------|
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Human and animal | Not sensitizing |

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 |
|---|----------|--|
| Medium Aliphatic Solvent Naphtha | In vivo | Not mutagenic |
| Medium Aliphatic Solvent Naphtha | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dibenzoate Propanol | In Vitro | Not mutagenic |
| Ethylene Glycol | In Vitro | Not mutagenic |
| Ethylene Glycol | In vivo | Not mutagenic |
| Iron Oxide | In Vitro | Not mutagenic |
| 2-Aminoisobutanol | In Vitro | Not mutagenic |
| 2-Aminoisobutanol | In vivo | Not mutagenic |
| Quartz Silica | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | In vivo | Some positive data exist, but the data are not sufficient for classification |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | In vivo | Not mutagenic |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Octhilinone | In Vitro | Not mutagenic |
| Octhilinone | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|----------------------------------|------------|-------------------------|--|
| Medium Aliphatic Solvent Naphtha | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Medium Aliphatic Solvent Naphtha | Inhalation | Human and animal | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| Ethylene Glycol | Ingestion | Multiple animal species | Not carcinogenic |
| Iron Oxide | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | Inhalation | Human | Carcinogenic |

| | | | |
|---|-----------|------------|------------------|
| | | and animal | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Dermal | Mouse | Not carcinogenic |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Ingestion | Rat | Not carcinogenic |

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 |
| Medium Aliphatic Solvent Naphtha | Inhalation | Not classified for development | Rat | NOAEL 2.4 mg/l | during organogenesis |
| Dibenzoate Propanol | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| Dibenzoate Propanol | Ingestion | Not classified for male reproduction | Rat | NOAEL 400 mg/kg/day | 2 generation |
| Dibenzoate Propanol | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during gestation |
| Ethylene Glycol | Dermal | Not classified for development | Mouse | NOAEL 3,549 mg/kg/day | during organogenesis |
| Ethylene Glycol | Ingestion | Not classified for development | Mouse | LOAEL 750 mg/kg/day | during organogenesis |
| Ethylene Glycol | Inhalation | Not classified for development | Mouse | NOAEL 1,000 mg/kg/day | during organogenesis |
| 2-Aminoisobutanol | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| 2-Aminoisobutanol | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 37 days |
| 2-Aminoisobutanol | Dermal | Not classified for development | Rat | NOAEL 300 mg/kg/day | during gestation |
| 2-Aminoisobutanol | Ingestion | Toxic to development | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Ingestion | Not classified for female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Ingestion | Not classified for male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Ingestion | Not classified for development | Rat | NOAEL 15 mg/kg/day | during organogenesis |
| Octhilinone | Ingestion | Not classified for development | Rabbit | NOEL 20 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 |
|----------------------------------|------------|-----------------------------------|--|------------------|---------------------|-------------------|
| Calcium Carbonate | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| Medium Aliphatic Solvent Naphtha | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Medium Aliphatic Solvent Naphtha | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |

| | | | | | | |
|---|------------|---|--|------------------------|---------------------|------------------------|
| Medium Aliphatic Solvent Naphtha | Inhalation | nervous system | Not classified | Dog | NOAEL 6.5 mg/l | 4 hours |
| Medium Aliphatic Solvent Naphtha | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| Ethylene Glycol | Ingestion | heart nervous system kidney and/or bladder respiratory system | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |
| Ethylene Glycol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Ethylene Glycol | Ingestion | liver | Not classified | Human | NOAEL Not available | poisoning and/or abuse |
| 2-Aminoisobutanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL Not available | |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone. | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |
| Ocithilnone | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | 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 |
| Medium Aliphatic Solvent Naphtha | Inhalation | nervous system | Not classified | Rat | LOAEL 4.6 mg/l | 6 months |
| Medium Aliphatic Solvent Naphtha | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.9 mg/l | 13 weeks |
| Medium Aliphatic Solvent Naphtha | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 0.6 mg/l | 90 days |
| Medium Aliphatic Solvent Naphtha | Inhalation | bone, teeth, nails, and/or hair blood liver muscles | Not classified | Rat | NOAEL 5.6 mg/l | 12 weeks |
| Medium Aliphatic Solvent Naphtha | Inhalation | heart | Not classified | Multiple animal species | NOAEL 1.3 mg/l | 90 days |
| Dibenzoate Propanol | Ingestion | hematopoietic system liver | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Ethylene Glycol | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 200 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | vascular system | Not classified | Rat | NOAEL 200 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | heart hematopoietic system liver immune system muscles | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | respiratory system | Not classified | Mouse | NOAEL 12,000 mg/kg/day | 2 years |
| Ethylene Glycol | Ingestion | skin endocrine system bone, teeth, nails, and/or hair nervous system eyes | Not classified | Multiple animal species | NOAEL 1,000 mg/kg/day | 2 years |
| Iron Oxide | Inhalation | pulmonary fibrosis pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 2-Aminoisobutanol | Ingestion | liver | Some positive data exist, but the data are not sufficient for | Rat | NOAEL 23 mg/kg/day | 90 days |

| | | | | | | |
|-------------------|------------|---|---|-------|------------------------|--------------------------|
| | | | classification | | | |
| 2-Aminoisobutanol | Ingestion | blood eyes kidney and/or bladder | Not classified | Dog | NOAEL 2.8 mg/kg/day | 1 years |
| Quartz Silica | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |

Aspiration Hazard

| Name | Value |
|----------------------------------|-------------------|
| Medium Aliphatic Solvent Naphtha | Aspiration hazard |

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**Ecotoxicological information**

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

Chemical fate information

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

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. 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. US Federal Regulations**

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

| |
|--------------------------------------|
| Physical Hazards |
| Not applicable |
| Health Hazards |
| Carcinogenicity |
| Reproductive toxicity |
| Respiratory or Skin Sensitization |
| Serious eye damage or eye irritation |

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|--------------------------|-------------------------|-----------------------|
| Ethylene Glycol | 107-21-1 | Trade Secret < 5 |

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Listing</u> |
|---|--------------------------|-----------------------|
| Silica, crystalline (airborne particles of respirable size) | None | Carcinogen |
| Ethylene glycol (ingested) | 107-21-1 | Developmental Toxin |
| Titanium dioxide (airborne, unbound particles of respirable size) | 13463-67-7 | Carcinogen |

15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional 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.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

| |
|--|
| This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
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SECTION 16: Other information

NFPA Hazard Classification

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.

| | | | |
|------------------------|-----------|-------------------------|----------|
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