



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M Brand Fire Barrier CP-25WB+

#### Product Identification Numbers

98-0400-5380-7, 98-0400-5381-5, 98-0400-5382-3, 98-0400-5383-1, 98-0400-5406-0, 98-0400-5456-5, 98-0400-5562-0, 98-0400-5573-7, 98-0400-5610-7, 98-0400-5629-7, 98-0441-1101-5  
7100006311, 7000006379, 7000059394, 7000145569, 7100025518, 7000006383, 7010353050, 7100137423, 7100271914

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Fire Protection, Industrial use

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Industrial Adhesives and Tapes 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 Sensitizer: Category 1.

Reproductive Toxicity: Category 2.

Germ Cell Mutagenicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.  
Suspected of causing genetic defects.

**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.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves and eye/face protection.  
Wash 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.  
Wash contaminated clothing 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% of the mixture consists of ingredients of unknown acute oral toxicity.

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

**SECTION 3: Composition/information on ingredients**

| Ingredient                            | C.A.S. No.    | % by Wt                |
|---------------------------------------|---------------|------------------------|
| Water                                 | 7732-18-5     | 10 - 30 Trade Secret * |
| Zinc Borate 2335                      | 138265-88-0   | 10 - 30 Trade Secret * |
| Polymer (NJTS Reg. No. 04499600-7270) | Trade Secret* | 10 - 30 Trade Secret * |
| Sodium Silicate                       | 1344-09-8     | 10 - 19 Trade Secret * |
| Ethylhexyldiphenyl Phosphate          | 1241-94-7     | 3 - 7 Trade Secret *   |
| Iron Oxide                            | 1309-37-1     | 1 - 5 Trade Secret *   |
| Polyethylene Glycol                   | 25322-68-3    | 1 - 5 Trade Secret *   |
| Oxide glass chemicals                 | Unknown       | 1 - 5 Trade Secret *   |
| Di-2-ethylhexylphenyl Phosphate       | 16368-97-1    | < 1 Trade Secret *     |

|                                                                                                                  |            |                    |
|------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-16-alkyl ethers, disodium salts | 68815-56-5 | < 1 Trade Secret * |
| Quartz Silica                                                                                                    | 14808-60-7 | < 1 Trade Secret * |
| Triphenyl Phosphate                                                                                              | 115-86-6   | < 1 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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Carbon monoxide  
Carbon dioxide  
Oxides of Phosphorus

#### Condition

During Combustion  
During Combustion  
During Combustion

### 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. 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. Avoid breathing 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.

## 7.2. Conditions for safe storage including any incompatibilities

Keep cool. Store away from heat. Store away from areas where product may come into contact with food or pharmaceuticals. Store in a dry place.

# 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            |
|---------------------|------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Triphenyl Phosphate | 115-86-6   | ACGIH  | TWA:3 mg/m3                                                                                                                                         | A4: Not class. as human carcin |
| Triphenyl Phosphate | 115-86-6   | OSHA   | TWA:3 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                                                                                                                               |                                |
| 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.) |                                |
| Polyethylene Glycol | 25322-68-3 | AIHA   | TWA:10 mg/m3                                                                                                                                        |                                |

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

Odorless

Odor threshold

No Data Available

pH

7.5 - 8

Melting point

No Data Available

Boiling Point

100 °C

Flash Point

No flash point

Evaporation rate

0.33 [Ref Std:BUOAC=1]

Flammability (solid, gas)

Not Classified

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

Vapor Pressure

17.5 mmHg [@ 20 °C]

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| Vapor Density                           | No Data Available                                     |
| Density                                 | No Data Available                                     |
| Specific Gravity                        | 1.35 [Ref Std:WATER=1]                                |
| Solubility in Water                     | Complete                                              |
| 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                                     |
| Molecular weight                        | No Data Available                                     |
| Volatile Organic Compounds              | <=0.5 % weight [Test Method:tested per EPA method 24] |
| VOC Less H2O & Exempt Solvents          | <=6 g/l [Test Method:tested per EPA method 24]        |

## 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

None known.

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
|------------------|------------------|

|             |  |
|-------------|--|
| 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:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### 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:

May be harmful if swallowed.

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.

#### Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

#### Carcinogenicity:

| Ingredient                                                      | CAS No.    | Class Description              | Regulation                                  |
|-----------------------------------------------------------------|------------|--------------------------------|---------------------------------------------|
| 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 |

#### 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 >2,000 - =5,000 mg/kg |
| Zinc Borate 2335                                                                                                 | Dermal               | Rabbit        | LD50 > 5,000 mg/kg                                      |
| Zinc Borate 2335                                                                                                 | Inhalation-Dust/Mist | Rat           | LC50 > 4.95 mg/l                                        |
| Zinc Borate 2335                                                                                                 | Ingestion            | Rat           | LD50 > 5,000 mg/kg                                      |
| Polymer (NJTS Reg. No. 04499600-7270)                                                                            | Dermal               |               | LD50 estimated to be > 5,000 mg/kg                      |
| Polymer (NJTS Reg. No. 04499600-7270)                                                                            | Ingestion            | Rat           | LD50 > 2,000 mg/kg                                      |
| Sodium Silicate                                                                                                  | Dermal               | Rabbit        | LD50 > 4,640 mg/kg                                      |
| Sodium Silicate                                                                                                  | Ingestion            | Rat           | LD50 500 mg/kg                                          |
| Ethylhexyldiphenyl Phosphate                                                                                     | Dermal               | Rabbit        | LD50 > 7,940 mg/kg                                      |
| Ethylhexyldiphenyl Phosphate                                                                                     | Ingestion            | Rat           | LD50 > 24,000 mg/kg                                     |
| Iron Oxide                                                                                                       | Dermal               | Not available | LD50 3,100 mg/kg                                        |
| Iron Oxide                                                                                                       | Ingestion            | Not available | LD50 3,700 mg/kg                                        |
| Polyethylene Glycol                                                                                              | Dermal               | Rabbit        | LD50 > 20,000 mg/kg                                     |
| Polyethylene Glycol                                                                                              | Ingestion            | Rat           | LD50 32,770 mg/kg                                       |
| Di-2-ethylhexylphenyl Phosphate                                                                                  | Ingestion            | Mouse         | LD50 9,333 mg/kg                                        |
| Triphenyl Phosphate                                                                                              | Dermal               | Rabbit        | LD50 > 10,000 mg/kg                                     |
| Triphenyl Phosphate                                                                                              | Ingestion            | Rat           | LD50 > 20,000 mg/kg                                     |
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-16-alkyl ethers, disodium salts | Ingestion            | Mouse         | LD50 > 540 mg/kg                                        |
| Quartz Silica                                                                                                    | Dermal               |               | LD50 estimated to be > 5,000 mg/kg                      |

|               |           |                                    |
|---------------|-----------|------------------------------------|
| Quartz Silica | Ingestion | LD50 estimated to be > 5,000 mg/kg |
|---------------|-----------|------------------------------------|

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                                                                             | Species                | Value                     |
|------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Zinc Borate 2335                                                                                                 | Rabbit                 | No significant irritation |
| Polymer (NJTS Reg. No. 04499600-7270)                                                                            | Rabbit                 | Minimal irritation        |
| Sodium Silicate                                                                                                  | Rabbit                 | Corrosive                 |
| Iron Oxide                                                                                                       | Rabbit                 | No significant irritation |
| Polyethylene Glycol                                                                                              | Rabbit                 | Minimal irritation        |
| Triphenyl Phosphate                                                                                              | Rabbit                 | No significant irritation |
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-16-alkyl ethers, disodium salts | In vitro data          | Corrosive                 |
| Quartz Silica                                                                                                    | Professional judgement | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                                                                                             | Species                | Value                     |
|------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Zinc Borate 2335                                                                                                 | Rabbit                 | Severe irritant           |
| Polymer (NJTS Reg. No. 04499600-7270)                                                                            | Professional judgement | Mild irritant             |
| Sodium Silicate                                                                                                  | Rabbit                 | Corrosive                 |
| Iron Oxide                                                                                                       | Rabbit                 | No significant irritation |
| Polyethylene Glycol                                                                                              | Rabbit                 | Mild irritant             |
| Triphenyl Phosphate                                                                                              | Rabbit                 | Mild irritant             |
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-16-alkyl ethers, disodium salts | In vitro data          | Corrosive                 |

### Skin Sensitization

| Name                                                                                                             | Species       | Value          |
|------------------------------------------------------------------------------------------------------------------|---------------|----------------|
| Zinc Borate 2335                                                                                                 | Guinea pig    | Not classified |
| Sodium Silicate                                                                                                  | Mouse         | Not classified |
| Iron Oxide                                                                                                       | Human         | Not classified |
| Polyethylene Glycol                                                                                              | Guinea pig    | Not classified |
| Triphenyl Phosphate                                                                                              | Human         | Not classified |
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-16-alkyl ethers, disodium salts | In vitro data | 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                                                                        |
|---------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Zinc Borate 2335                                                    | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Borate 2335                                                    | In vivo  | Mutagenic                                                                    |
| Sodium Silicate                                                     | In Vitro | Not mutagenic                                                                |
| Sodium Silicate                                                     | In vivo  | Not mutagenic                                                                |
| Iron Oxide                                                          | In Vitro | Not mutagenic                                                                |
| Polyethylene Glycol                                                 | In Vitro | Not mutagenic                                                                |
| Polyethylene Glycol                                                 | In vivo  | Not mutagenic                                                                |
| Triphenyl Phosphate                                                 | In Vitro | Not mutagenic                                                                |
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega- | In Vitro | Not mutagenic                                                                |



|                                               |          |                                                                              |
|-----------------------------------------------|----------|------------------------------------------------------------------------------|
| hydroxy-, C10-16-alkyl ethers, disodium salts |          |                                                                              |
| 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 |

**Carcinogenicity**

| Name                | Route      | Species          | Value                                                                        |
|---------------------|------------|------------------|------------------------------------------------------------------------------|
| Iron Oxide          | Inhalation | Human            | Some positive data exist, but the data are not sufficient for classification |
| Polyethylene Glycol | Ingestion  | Rat              | Not carcinogenic                                                             |
| Quartz Silica       | Inhalation | Human and animal | Carcinogenic                                                                 |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                | Route         | Value                                              | Species | Test Result                   | Exposure Duration             |
|---------------------|---------------|----------------------------------------------------|---------|-------------------------------|-------------------------------|
| Zinc Borate 2335    | Ingestion     | Toxic to male reproduction                         | Rat     | NOAEL 100 mg/kg/day           | 92 days                       |
| Zinc Borate 2335    | Ingestion     | Toxic to development                               | Rat     | LOAEL 100 mg/kg/day           | during gestation              |
| Sodium Silicate     | Ingestion     | Not classified for development                     | Mouse   | NOAEL 200 mg/kg/day           | during gestation              |
| Polyethylene Glycol | Ingestion     | Not classified for female reproduction             | Rat     | NOAEL 1,125 mg/kg/day         | during gestation              |
| Polyethylene Glycol | Ingestion     | Not classified for male reproduction               | Rat     | NOAEL 5699 +/- 1341 mg/kg/day | 5 days                        |
| Polyethylene Glycol | Not Specified | Not classified for reproduction and/or development |         | NOEL N/A                      |                               |
| Polyethylene Glycol | Ingestion     | Not classified for development                     | Mouse   | NOAEL 562 mg/animal/day       | during gestation              |
| Triphenyl Phosphate | Ingestion     | Not classified for female reproduction             | Rat     | NOAEL 690 mg/kg/day           | prematings & during gestation |
| Triphenyl Phosphate | Ingestion     | Not classified for male reproduction               | Rat     | NOAEL 690 mg/kg/day           | 91 days                       |
| Triphenyl Phosphate | Ingestion     | Toxic to development                               | Rat     | NOAEL 77 mg/kg/day            | 1 generation                  |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                                                                                                             | Route      | Target Organ(s)        | Value                                                                        | Species                 | Test Result         | Exposure Duration |
|------------------------------------------------------------------------------------------------------------------|------------|------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| Zinc Borate 2335                                                                                                 | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Sodium Silicate                                                                                                  | Inhalation | respiratory irritation | May cause respiratory irritation                                             | official classification | NOAEL Not available |                   |
| Polyethylene Glycol                                                                                              | Inhalation | respiratory irritation | Not classified                                                               | Rat                     | NOAEL 1.008 mg/l    | 2 weeks           |
| Poly(oxy-1,2-ethanediyl), alpha-(3-carboxy-1-oxosulfopropyl)-omega-hydroxy-, C10-16-alkyl ethers, disodium salts | 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     |
|---------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|------------------------|-----------------------|
| Zinc Borate 2335    | Inhalation | immune system   respiratory system   heart   endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder                                                                   | Not classified                                                               | Rat     | NOAEL 0.15 mg/l        | 2 weeks               |
| Zinc Borate 2335    | Ingestion  | endocrine system   liver   kidney and/or bladder   heart   skin   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   eyes   respiratory system   vascular system | Not classified                                                               | Rat     | NOAEL 375 mg/kg/day    | 92 days               |
| Sodium Silicate     | Ingestion  | kidney and/or bladder                                                                                                                                                                                   | Some positive data exist, but the data are not sufficient for classification | Dog     | LOAEL 2,400 mg/kg/day  | 4 weeks               |
| Sodium Silicate     | Ingestion  | endocrine system   blood                                                                                                                                                                                | Not classified                                                               | Rat     | NOAEL 804 mg/kg/day    | 3 months              |
| Sodium Silicate     | Ingestion  | heart   liver                                                                                                                                                                                           | Not classified                                                               | Rat     | NOAEL 1,259 mg/kg/day  | 8 weeks               |
| Iron Oxide          | Inhalation | pulmonary fibrosis   pneumoconiosis                                                                                                                                                                     | Not classified                                                               | Human   | NOAEL Not available    | occupational exposure |
| Polyethylene Glycol | Inhalation | respiratory system                                                                                                                                                                                      | Not classified                                                               | Rat     | NOAEL 1.008 mg/l       | 2 weeks               |
| Polyethylene Glycol | Ingestion  | kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system                                                                                                        | Not classified                                                               | Rat     | NOAEL 5,640 mg/kg/day  | 13 weeks              |
| Triphenyl Phosphate | Dermal     | endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder                                                                                                                | Not classified                                                               | Rabbit  | NOAEL 1,000 mg/kg/day  | 3 weeks               |
| Triphenyl Phosphate | Ingestion  | endocrine system   liver                                                                                                                                                                                | Not classified                                                               | Rat     | NOAEL 583 mg/kg/day    | 90 days               |
| Triphenyl Phosphate | Ingestion  | immune system                                                                                                                                                                                           | Not classified                                                               | Rat     | NOAEL 700 mg/kg/day    | 120 days              |
| Triphenyl Phosphate | Ingestion  | gastrointestinal tract                                                                                                                                                                                  | Not classified                                                               | Rat     | NOAEL 583 mg/kg/day    | 90 days               |
| Triphenyl Phosphate | Ingestion  | nervous system                                                                                                                                                                                          | Not classified                                                               | Chicken | NOAEL 10,000 mg/kg/day | 42 days               |
| Quartz Silica       | Inhalation | silicosis                                                                                                                                                                                               | Causes damage to organs through prolonged or repeated exposure               | 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**

**Ecotoxicological information**

| <u>Test Organism</u>                                | <u>Test Type</u>                    | <u>Result</u> |
|-----------------------------------------------------|-------------------------------------|---------------|
| Water flea, <i>Daphnia magna</i>                    | 48 hours Aquatic Toxicity - Acute   | 27 mg/l       |
| Green algae, <i>Pseudokirchneriella subcapitata</i> | 72 hours Aquatic Toxicity - Chronic | 2.6 mg/l      |

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**

Germ cell mutagenicity

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

**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>       |
|-----------------------------------|------------------|----------------------|
| Zinc Borate 2335 (ZINC COMPOUNDS) | 138265-88-0      | Trade Secret 10 - 30 |

**This material contains a chemical which requires export notification under TSCA Section 12[b]:**

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Regulation</u>                     | <u>Status</u> |
|--------------------------------------------|------------------|---------------------------------------|---------------|
| Triphenyl Phosphate                        | 115-86-6         | Toxic Substances Control Act (TSCA) 4 | Applicable    |

Triphenyl Phosphate

115-86-6

Test Rule Chemicals  
Toxic Substances Control Act (TSCA) 5  
SNUR or Consent Order Chemicals Proposed**This material contains a chemical subject to a proposed EPA Significant New Use Rule (TSCA Section 5)****Ingredient (Category if applicable)**

Triphenyl Phosphate

**C.A.S. No**

115-86-6

**Reference**

40 CFR 721.11778

**15.2. State Regulations****15.3. Chemical Inventories**

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 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 material are in compliance with the provisions of the Korean Toxic Chemical Control Law. 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.

**15.4. International Regulations****This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.****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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