



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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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(TM) SCOTCH-WELD(TM) STRUCTURAL ADHESIVE PRIMER EC-3917

##### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| 62-3917-5501-4 | 62-3917-6501-3 | 62-3917-6550-0 | 62-3917-6560-9 | 62-3917-7501-2 |
| 62-3917-7538-4 | 62-3917-7540-0 | 62-3917-7550-9 | 62-3917-8501-1 | 62-3917-8540-9 |
| 62-3917-8550-8 | 87-3300-0594-0 | 87-3300-0595-7 | 87-3300-0665-8 | 87-3300-0666-6 |

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

##### Intended Use

Industrial use

##### Specific Use

Primer

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

|                   |  |
|-------------------|--|
| <b>Company:</b>   | 3M Canada Company  |
| <b>Division:</b>  | Automotive and Aerospace Solutions Division                            |
| <b>Address:</b>   | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| <b>Telephone:</b> | (800) 364-3577   |
| <b>Website:</b>   | 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

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.  
Carcinogenicity: Category 1A.  
Germ Cell Mutagenicity: Category 2.  
Specific Target Organ Toxicity (single exposure): Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3.  
Specific Target Organ Toxicity (repeated exposure): Category 1.

## 2.2. Label elements

### Signal word

Danger

### Symbols

Flame | Exclamation mark | Health Hazard |

### Pictograms



### Hazard statements

Highly flammable liquid and vapour.  
Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May damage fertility or the unborn child. May cause cancer. Suspected of causing genetic defects.  
Causes damage to organs: kidney/urinary tract |

Causes damage to organs through prolonged or repeated exposure: respiratory system |  
May cause damage to organs through prolonged or repeated exposure: kidney/urinary tract |

### Precautionary statements

#### Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Use explosion-proof electrical/ventilating/lighting equipment. Do not breathe dust/fume/gas/mist/vapours/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 exposed skin 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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 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. In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Storage:

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

#### Disposal:

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

## 2.3. Other hazards

None known.

6% of the mixture consists of ingredients of unknown acute oral toxicity.  
 6% of the mixture consists of ingredients of unknown acute dermal toxicity.  
 6% of the mixture consists of ingredients of unknown acute inhalation toxicity.

### SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient                  | C.A.S. No.   | % by Wt                  | Common Name   |
|-----------------------------|--------------|--------------------------|---|
| Methyl Ethyl Ketone         | 78-93-3      | 65 - 85 Trade Secret *   | 2-Butanone  |
| PHENOL-FORMALDEHYDE RESIN   | Trade Secret | 5 - 10                   | Not Applicable  |
| Epoxy Resin                 | 25036-25-3   | 1 - 5 Trade Secret *     | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] |
| Ethyl Acetate               | 141-78-6     | < 5                      | Acetic acid ethyl ester   |
| Ethyl Alcohol               | 64-17-5      | < 5                      | Ethanol   |
| STRONTIUM CHROMATE (VI)     | 7789-06-2    | 1 - 5 Trade Secret *     | Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), strontium salt (1:1)   |
| Water                       | 7732-18-5    | < 5                      | Water   |
| Phenol-Formaldehyde Polymer | 9003-35-4    | 0.5 - 1.5 Trade Secret * | Phenol, polymer with formaldehyde   |
| MIBK                        | 108-10-1     | <= 0.99                  | 2-Pentanone, 4-methyl-  |
| Toluene                     | 108-88-3     | 0 - 0.99                 | No Data Available   |
| Methyl Alcohol              | 67-56-1      | < 0.2                    | Methanol  |
| BARIUM CHROMATE             | 10294-40-3   | 0 - 0.11                 | Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), barium salt (1:1)  |

PHENOL-FORMALDEHYDE RESIN is a non-hazardous Trade Secret material according to WHMIS criteria.

\*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 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). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Aldehydes        | During Combustion |
| Formaldehyde     | During Combustion |
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | During Combustion |

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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

For industrial or professional use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the

risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

**7.2. Conditions for safe storage including any incompatibilities**

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. 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.

| <b>Ingredient</b>                        | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>  | <b>Additional Comments</b>     |
|--|-------------------|---------------|--|--------------------------------|
| CHROMIUM (HEXAVALENT COMPOUNDS)          | 10294-40-3        | ACGIH         | TWA(as Cr(IV), inhalable fraction):0.0002 mg/m3;STEL(as Cr(IV), inhalable fraction):0.0005 mg/m3                       |                                |
| Chromium(6+), insoluble compounds        | 10294-40-3        | ACGIH         | TWA(as Cr):0.01 mg/m3  |                                |
| Water-soluble inorganic Cr(6+) compounds | 10294-40-3        | ACGIH         | TWA(as Cr):0.05 mg/m3  |                                |
| MIBK                                     | 108-10-1          | ACGIH         | TWA:20 ppm;STEL:75 ppm   |                                |
| Toluene                                  | 108-88-3          | ACGIH         | TWA:20 ppm   |                                |
| Ethyl Acetate                            | 141-78-6          | ACGIH         | TWA:400 ppm  |                                |
| Ethyl Alcohol                            | 64-17-5           | ACGIH         | STEL:1000 ppm  |                                |
| Methyl Alcohol                           | 67-56-1           | ACGIH         | TWA:200 ppm;STEL:250 ppm   | Danger of cutaneous absorption |
| CHROMIUM (HEXAVALENT COMPOUNDS)          | 7789-06-2         | ACGIH         | TWA(as Cr(IV), inhalable fraction):0.0002 mg/m3;STEL(as Cr(IV), inhalable fraction):0.0005 mg/m3                       |                                |
| CHROMIUM (VI), WATER SOLUBLE COMPOUNDS   | 7789-06-2         | ACGIH         | TWA(as Cr(IV), inhalable fraction):0.0002 mg/m3;TWA(as Cr):0.05 mg/m3;STEL(as Cr(IV), inhalable fraction):0.0005 mg/m3 | Dermal/Respiratory Sensitizer  |
| Chromium(6+), insoluble compounds        | 7789-06-2         | ACGIH         | TWA(as Cr):0.01 mg/m3  |                                |
| Water-soluble inorganic Cr(6+) compounds | 7789-06-2         | ACGIH         | TWA(as Cr):0.05 mg/m3  |                                |
| Methyl Ethyl Ketone                      | 78-93-3           | ACGIH         | TWA:200 ppm;STEL:300 ppm   |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**

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

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 formaldehyde

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

Half facepiece or full facepiece supplied-air respirator

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**

|  |  |
|--|--|
| <b>Physical state</b>                                | Liquid                                     |
| <b>Colour</b>  | Green, Yellow                              |
| <b>Odour</b>   | Ketones                                    |
| <b>Odour threshold</b>                               | <i>No Data Available</i>                   |
| <b>pH</b>  | <i>Not Applicable</i>                      |
| <b>Melting point/Freezing point</b>                  | <i>Not Applicable</i>                      |
| <b>Boiling point</b>                                 | ≥77 °C                                     |
| <b>Flash Point</b>                                   | -8.9 °C [ <i>Test Method: Closed Cup</i> ] |
| <b>Evaporation rate</b>                              | 2.7 [ <i>Ref Std: ETHER=1</i> ]            |
| <b>Flammability (solid, gas)</b>                     | Not Applicable                             |
| <b>Flammable Limits(LEL)</b>                         | 1.8 % volume                               |
| <b>Flammable Limits(UEL)</b>                         | 19 % volume                                |
| <b>Vapour Pressure</b>                               | 13,332.2 Pa [ <i>@ 27.2 °C</i> ]           |
| <b>Vapour Density and/or Relative Vapour Density</b> | 2.5 [ <i>Ref Std: AIR=1</i> ]              |
| <b>Density</b>                                       | 0.86 g/ml                                  |

|   |   |
|---|---|
| Relative density                        | 0.86 [Ref Std: WATER=1]                               |
| Water solubility                        | Slight (less than 10%)                                |
| Solubility- non-water                   | No Data Available                                     |
| Partition coefficient: n-octanol/ water | No Data Available                                     |
| Autoignition temperature                | 365 °C [Details: Ethyl Alcohol]                       |
| Decomposition temperature               | No Data Available                                     |
| Viscosity/Kinematic Viscosity           | 2 - 5 mPa-s [@ 23 °C ]                                |
| Volatile Organic Compounds              | <=750 g/l [Test Method: calculated SCAQMD rule 443.1] |
| Percent volatile                        | <=87 %  |
| VOC Less H2O & Exempt Solvents          | <=770 g/l [Test Method: calculated SCAQMD rule 443.1] |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

Sparks and/or flames

### 10.5. Incompatible materials

Strong oxidizing agents

Strong acids

### 10.6. Hazardous decomposition products

#### Substance

#### Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation:

May be harmful if inhaled. 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:**

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. May cause additional health effects (see below).

**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:**

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

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. 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.

**Prolonged or repeated exposure may cause target organ effects:**

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

**Genotoxicity:**

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

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| <b>Ingredient</b>             | <b>CAS No.</b> | <b>Class Description</b>       | <b>Regulation</b>                           |
|-------------------------------|----------------|--------------------------------|---|
| Chromium Hexavalent Compounds | 10294-40-3     | Known To Be Human Carcinogen.  | National Toxicology Program Carcinogens     |
| Chromium Hexavalent Compounds | 7789-06-2      | Known To Be Human Carcinogen.  | National Toxicology Program Carcinogens     |
| Chromium[VI] compounds        | 10294-40-3     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Chromium[VI] compounds        | 7789-06-2      | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Hexavalent chromium compounds | 10294-40-3     | Cancer hazard                  | OSHA Carcinogens                            |
| Hexavalent chromium compounds | 7789-06-2      | Cancer hazard                  | OSHA Carcinogens                            |
| Methyl isobutyl ketone        | 108-10-1       | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |

**Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

**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**

| <b>Name</b>     | <b>Route</b> | <b>Species</b> | <b>Value</b>                                   |
|-----------------|--------------|----------------|--|
| Overall product | Dermal       |                | No data available; calculated ATE >5,000 mg/kg |



**3M(TM) SCOTCH-WELD(TM) STRUCTURAL ADHESIVE PRIMER EC-3917**

|                             |                                |        |   |
|-----------------------------|--------------------------------|--------|---|
| Overall product             | Inhalation-Vapor(4 hr)         |        | No data available; calculated ATE >20 - =50 mg/l        |
| Overall product             | Ingestion                      |        | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Methyl Ethyl Ketone         | Dermal                         | Rabbit | LD50 > 8,050 mg/kg                                      |
| Methyl Ethyl Ketone         | Inhalation-Vapor (4 hours)     | Rat    | LC50 34.5 mg/l  |
| Methyl Ethyl Ketone         | Ingestion                      | Rat    | LD50 2,737 mg/kg  |
| Ethyl Acetate               | Dermal                         | Rabbit | LD50 > 18,000 mg/kg                                     |
| Ethyl Acetate               | Inhalation-Vapor (4 hours)     | Rat    | LC50 70.5 mg/l  |
| Ethyl Acetate               | Ingestion                      | Rat    | LD50 5,620 mg/kg  |
| STRONTIUM CHROMATE (VI)     | Dermal                         |        | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| STRONTIUM CHROMATE (VI)     | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 0.27 mg/l  |
| STRONTIUM CHROMATE (VI)     | Ingestion                      | Rat    | LD50 3,118 mg/kg  |
| Ethyl Alcohol               | Dermal                         | Rabbit | LD50 > 15,800 mg/kg                                     |
| Ethyl Alcohol               | Inhalation-Vapor (4 hours)     | Rat    | LC50 124.7 mg/l   |
| Ethyl Alcohol               | Ingestion                      | Rat    | LD50 17,800 mg/kg                                       |
| MIBK                        | Dermal                         | Rabbit | LD50 > 16,000 mg/kg                                     |
| MIBK                        | Inhalation-Vapor (4 hours)     | Rat    | LC50 11 mg/l  |
| MIBK                        | Ingestion                      | Rat    | LD50 3,038 mg/kg  |
| Toluene                     | Dermal                         | Rat    | LD50 12,000 mg/kg                                       |
| Toluene                     | Inhalation-Vapor (4 hours)     | Rat    | LC50 30 mg/l  |
| Toluene                     | Ingestion                      | Rat    | LD50 5,550 mg/kg  |
| Epoxy Resin                 | Dermal                         | Rat    | LD50 > 1,600 mg/kg                                      |
| Epoxy Resin                 | Ingestion                      | Rat    | LD50 > 1,000 mg/kg                                      |
| Phenol-Formaldehyde Polymer | Dermal                         | Rat    | LD50 > 2,000 mg/kg                                      |
| Phenol-Formaldehyde Polymer | Ingestion                      | Rat    | LD50 > 2,900 mg/kg                                      |
| Methyl Alcohol              | Dermal                         |        | LD50 estimated to be 1,000 - 2,000 mg/kg                |
| Methyl Alcohol              | Inhalation-Vapor               |        | LC50 estimated to be 10 - 20 mg/l                       |
| Methyl Alcohol              | Ingestion                      |        | LD50 estimated to be 50 - 300 mg/kg                     |
| BARIUM CHROMATE             | Dermal                         |        | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| BARIUM CHROMATE             | Ingestion                      | Rat    | LD50 3,000 mg/kg  |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                        | Species                | Value                     |
|-----------------------------|------------------------|---------------------------|
| Methyl Ethyl Ketone         | Rabbit                 | Minimal irritation        |
| Ethyl Acetate               | Rabbit                 | Minimal irritation        |
| STRONTIUM CHROMATE (VI)     | Professional judgement | Mild irritant             |
| Ethyl Alcohol               | Rabbit                 | No significant irritation |
| MIBK                        | Rabbit                 | Mild irritant             |
| Toluene                     | Rabbit                 | Irritant                  |
| Epoxy Resin                 | Rabbit                 | Mild irritant             |
| Phenol-Formaldehyde Polymer | Human and animal       | Mild irritant             |
| Methyl Alcohol              | Rabbit                 | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name                        | Species          | Value             |
|-----------------------------|------------------|-------------------|
| Methyl Ethyl Ketone         | Rabbit           | Severe irritant   |
| Ethyl Acetate               | Rabbit           | Mild irritant     |
| STRONTIUM CHROMATE (VI)     | Rabbit           | Mild irritant     |
| Ethyl Alcohol               | Rabbit           | Severe irritant   |
| MIBK                        | Rabbit           | Mild irritant     |
| Toluene                     | Rabbit           | Moderate irritant |
| Epoxy Resin                 | Rabbit           | Moderate irritant |
| Phenol-Formaldehyde Polymer | Human and animal | Moderate irritant |
| Methyl Alcohol              | Rabbit           | Moderate irritant |

**Skin Sensitization**

| Name                        | Species           | Value          |
|-----------------------------|-------------------|----------------|
| Ethyl Acetate               | Guinea pig        | Not classified |
| STRONTIUM CHROMATE (VI)     | similar compounds | Sensitizing    |
| Ethyl Alcohol               | Human             | Not classified |
| MIBK                        | Guinea pig        | Not classified |
| Toluene                     | Guinea pig        | Not classified |
| Epoxy Resin                 | Human and animal  | Sensitizing    |
| Phenol-Formaldehyde Polymer | Human and animal  | Sensitizing    |
| Methyl Alcohol              | Guinea pig        | Not classified |
| BARIUM CHROMATE             | similar compounds | Not classified |

**Respiratory Sensitization**

| Name                        | Species | Value          |
|-----------------------------|---------|----------------|
| Epoxy Resin                 | Human   | Not classified |
| Phenol-Formaldehyde Polymer | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name                    | Route    | Value  |
|-------------------------|----------|--|
| Methyl Ethyl Ketone     | In Vitro | Not mutagenic  |
| Ethyl Acetate           | In Vitro | Not mutagenic  |
| Ethyl Acetate           | In vivo  | Not mutagenic  |
| STRONTIUM CHROMATE (VI) | In vivo  | Mutagenic  |
| Ethyl Alcohol           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol           | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| MIBK                    | In Vitro | Not mutagenic  |
| Toluene                 | In Vitro | Not mutagenic  |
| Toluene                 | In vivo  | Not mutagenic  |
| Epoxy Resin             | In vivo  | Not mutagenic  |
| Epoxy Resin             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol          | In Vitro | Some positive data exist, but the data are not sufficient for classification |

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|                |         |  |
|----------------|---------|--|
| Methyl Alcohol | In vivo | Some positive data exist, but the data are not sufficient for classification |
|----------------|---------|--|

**Carcinogenicity**

| Name                    | Route         | Species                 | Value  |
|-------------------------|---------------|-------------------------|--|
| Methyl Ethyl Ketone     | Inhalation    | Human                   | Not carcinogenic   |
| STRONTIUM CHROMATE (VI) | Not Specified | similar compounds       | Carcinogenic   |
| Ethyl Alcohol           | Ingestion     | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| MIBK                    | Inhalation    | Multiple animal species | Carcinogenic   |
| Toluene                 | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                 | Ingestion     | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Toluene                 | Inhalation    | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin             | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol          | Inhalation    | Multiple animal species | Not carcinogenic   |
| BARIUM CHROMATE         | Not Specified | similar compounds       | Carcinogenic   |

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

| Name                    | Route      | Value                                  | Species                 | Test result           | Exposure Duration              |
|-------------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| Methyl Ethyl Ketone     | Inhalation | Not classified for development         | Rat                     | LOAEL 8.8 mg/l        | during gestation               |
| STRONTIUM CHROMATE (VI) | Ingestion  | Toxic to female reproduction           | similar compounds       | NOAEL Not available   |                                |
| STRONTIUM CHROMATE (VI) | Ingestion  | Toxic to male reproduction             | similar compounds       | NOAEL Not available   |                                |
| STRONTIUM CHROMATE (VI) | Ingestion  | Toxic to development                   | similar compounds       | NOAEL Not available   |                                |
| Ethyl Alcohol           | Inhalation | Not classified for development         | Rat                     | NOAEL 38 mg/l         | during gestation               |
| Ethyl Alcohol           | Ingestion  | Not classified for development         | Rat                     | NOAEL 5,200 mg/kg/day | prematuring & during gestation |
| MIBK                    | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l        | 2 generation                   |
| MIBK                    | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks                       |
| MIBK                    | Inhalation | Not classified for male reproduction   | Multiple animal species | NOAEL 8.2 mg/l        | 2 generation                   |
| MIBK                    | Inhalation | Not classified for development         | Mouse                   | NOAEL 12.3 mg/l       | during organogenesis           |
| Toluene                 | Inhalation | Not classified for female reproduction | Human                   | NOAEL Not available   | occupational exposure          |
| Toluene                 | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 2.3 mg/l        | 1 generation                   |

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|                 |               |  |                   |                       |                                |
|-----------------|---------------|--|-------------------|-----------------------|--------------------------------|
| Toluene         | Ingestion     | Toxic to development                               | Rat               | LOAEL 520 mg/kg/day   | during gestation               |
| Toluene         | Inhalation    | Toxic to development                               | Human             | NOAEL Not available   | poisoning and/or abuse         |
| Epoxy Resin     | Ingestion     | Not classified for female reproduction             | Rat               | NOAEL 750 mg/kg/day   | 2 generation                   |
| Epoxy Resin     | Ingestion     | Not classified for male reproduction               | Rat               | NOAEL 750 mg/kg/day   | 2 generation                   |
| Epoxy Resin     | Dermal        | Not classified for development                     | Rabbit            | NOAEL 300 mg/kg/day   | during organogenesis           |
| Epoxy Resin     | Ingestion     | Not classified for development                     | Rat               | NOAEL 750 mg/kg/day   | 2 generation                   |
| Methyl Alcohol  | Ingestion     | Not classified for male reproduction               | Rat               | NOAEL 1,600 mg/kg/day | 21 days                        |
| Methyl Alcohol  | Ingestion     | Toxic to development                               | Mouse             | LOAEL 4,000 mg/kg/day | during organogenesis           |
| Methyl Alcohol  | Inhalation    | Toxic to development                               | Mouse             | NOAEL 1.3 mg/l        | during organogenesis           |
| BARIUM CHROMATE | Not Specified | Not classified for reproduction and/or development | similar compounds | NOAEL Not available   | prematuring & during gestation |

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

| Name                    | Route      | Target Organ(s)                   | Value  | Species                 | Test result         | Exposure Duration |
|-------------------------|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| Methyl Ethyl Ketone     | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | official classification | NOAEL Not available |                   |
| Methyl Ethyl Ketone     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                   |
| Methyl Ethyl Ketone     | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                   |
| Methyl Ethyl Ketone     | Ingestion  | liver                             | Not classified   | Rat                     | NOAEL Not available | not applicable    |
| Methyl Ethyl Ketone     | Ingestion  | kidney and/or bladder             | Not classified   | Rat                     | LOAEL 1,080 mg/kg   | not applicable    |
| Ethyl Acetate           | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                   |
| Ethyl Acetate           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                   |
| Ethyl Acetate           | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                   |
| STRONTIUM CHROMATE (VI) | Inhalation | respiratory irritation            | May cause respiratory irritation   | similar compounds       | NOAEL Not available |                   |
| STRONTIUM CHROMATE (VI) | Ingestion  | kidney and/or bladder             | Causes damage to organs  | similar compounds       | NOAEL Not available |                   |
| Ethyl Alcohol           | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available     |
| Ethyl Alcohol           | Inhalation | central nervous system depression | Not classified   | Human and animal        | NOAEL not available |                   |
| Ethyl Alcohol           | Ingestion  | central nervous system depression | Not classified   | Multiple animal species | NOAEL not available |                   |

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|                             |            |                                   |  |                  |                     |                        |
|-----------------------------|------------|-----------------------------------|--|------------------|---------------------|------------------------|
| Ethyl Alcohol               | Ingestion  | kidney and/or bladder             | Not classified   | Dog              | NOAEL 3,000 mg/kg   |                        |
| MIBK                        | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human            | LOAEL 0.1 mg/l      | 2 hours                |
| MIBK                        | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human            | NOAEL Not available |                        |
| MIBK                        | Inhalation | vascular system                   | Not classified   | Dog              | NOAEL Not available | not available          |
| MIBK                        | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Rat              | LOAEL 900 mg/kg     | not applicable         |
| Toluene                     | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human            | NOAEL Not available |                        |
| Toluene                     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human            | NOAEL Not available |                        |
| Toluene                     | Inhalation | immune system                     | Not classified   | Mouse            | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene                     | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human            | NOAEL Not available | poisoning and/or abuse |
| Phenol-Formaldehyde Polymer | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available |                        |
| Methyl Alcohol              | Inhalation | blindness                         | Causes damage to organs  | Human            | NOAEL Not available | occupational exposure  |
| Methyl Alcohol              | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human            | NOAEL Not available | not available          |
| Methyl Alcohol              | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Rat              | NOAEL Not available | 6 hours                |
| Methyl Alcohol              | Ingestion  | blindness                         | Causes damage to organs  | Human            | NOAEL Not available | poisoning and/or abuse |
| Methyl Alcohol              | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human            | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name                    | Route      | Target Organ(s)  | Value  | Species           | Test result           | Exposure Duration |
|-------------------------|------------|--|--|-------------------|-----------------------|-------------------|
| Methyl Ethyl Ketone     | Dermal     | nervous system   | Not classified   | Guinea pig        | NOAEL Not available   | 31 weeks          |
| Methyl Ethyl Ketone     | Inhalation | liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles | Not classified   | Rat               | NOAEL 14.7 mg/l       | 90 days           |
| Methyl Ethyl Ketone     | Ingestion  | liver  | Not classified   | Rat               | NOAEL Not available   | 7 days            |
| Methyl Ethyl Ketone     | Ingestion  | nervous system   | Not classified   | Rat               | NOAEL 173 mg/kg/day   | 90 days           |
| Ethyl Acetate           | Inhalation | endocrine system   liver   nervous system  | Not classified   | Rat               | NOAEL 0.043 mg/l      | 90 days           |
| Ethyl Acetate           | Inhalation | hematopoietic system   | Not classified   | Rabbit            | LOAEL 16 mg/l         | 40 days           |
| Ethyl Acetate           | Ingestion  | hematopoietic system   liver   kidney and/or bladder   | Not classified   | Rat               | NOAEL 3,600 mg/kg/day | 90 days           |
| STRONTIUM CHROMATE (VI) | Inhalation | respiratory system   | Causes damage to organs through prolonged or repeated exposure | similar compounds | NOAEL Not available   |                   |
| STRONTIUM CHROMATE (VI) | Ingestion  | kidney and/or bladder  | May cause damage to organs through prolonged or repeated       | similar compound  | NOAEL Not available   |                   |

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|               |            |   |  |                         |                       |                        |
|---------------|------------|---|--|-------------------------|-----------------------|------------------------|
|               |            |   | exposure   | ds                      |                       |                        |
| Ethyl Alcohol | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rabbit                  | LOAEL 124 mg/l        | 365 days               |
| Ethyl Alcohol | Inhalation | hematopoietic system   immune system                                    | Not classified   | Rat                     | NOAEL 25 mg/l         | 14 days                |
| Ethyl Alcohol | Ingestion  | liver   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 8,000 mg/kg/day | 4 months               |
| Ethyl Alcohol | Ingestion  | kidney and/or bladder   | Not classified   | Dog                     | NOAEL 3,000 mg/kg/day | 7 days                 |
| MIBK          | Inhalation | liver   | Not classified   | Rat                     | NOAEL 0.41 mg/l       | 13 weeks               |
| MIBK          | Inhalation | heart   | Not classified   | Multiple animal species | NOAEL 0.8 mg/l        | 2 weeks                |
| MIBK          | Inhalation | kidney and/or bladder   | Not classified   | Multiple animal species | NOAEL 0.4 mg/l        | 90 days                |
| MIBK          | Inhalation | respiratory system  | Not classified   | Multiple animal species | NOAEL 4.1 mg/l        | 14 weeks               |
| MIBK          | Inhalation | endocrine system   hematopoietic system                                 | Not classified   | Multiple animal species | NOAEL 0.41 mg/l       | 90 days                |
| MIBK          | Inhalation | nervous system  | Not classified   | Multiple animal species | NOAEL 0.41 mg/l       | 13 weeks               |
| MIBK          | Ingestion  | endocrine system   hematopoietic system   liver   kidney and/or bladder | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| MIBK          | Ingestion  | heart   immune system   muscles   nervous system   respiratory system   | Not classified   | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| Toluene       | Inhalation | auditory system   eyes   olfactory system                               | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene       | Inhalation | nervous system  | May cause damage to organs though prolonged or repeated exposure             | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene       | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2.3 mg/l        | 15 months              |
| Toluene       | Inhalation | heart   liver   kidney and/or bladder                                   | Not classified   | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene       | Inhalation | endocrine system  | Not classified   | Rat                     | NOAEL 1.1 mg/l        | 4 weeks                |
| Toluene       | Inhalation | immune system   | Not classified   | Mouse                   | NOAEL Not available   | 20 days                |
| Toluene       | Inhalation | bone, teeth, nails, and/or hair   | Not classified   | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks                |
| Toluene       | Inhalation | hematopoietic system   vascular system                                  | Not classified   | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene       | Inhalation | gastrointestinal tract  | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene       | Ingestion  | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks               |
| Toluene       | Ingestion  | heart   | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks               |

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|                             |            |  |  |                         |                       |                       |
|-----------------------------|------------|--|--|-------------------------|-----------------------|-----------------------|
| Toluene                     | Ingestion  | liver   kidney and/or bladder  | Not classified   | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks              |
| Toluene                     | Ingestion  | hematopoietic system   | Not classified   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days               |
| Toluene                     | Ingestion  | endocrine system   | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days               |
| Toluene                     | Ingestion  | immune system  | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks               |
| Epoxy Resin                 | Dermal     | liver  | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 2 years               |
| Epoxy Resin                 | Dermal     | nervous system   | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks              |
| Epoxy Resin                 | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day | 28 days               |
| Phenol-Formaldehyde Polymer | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available   | occupational exposure |
| Methyl Alcohol              | Inhalation | liver  | Not classified   | Rat                     | NOAEL 6.55 mg/l       | 4 weeks               |
| Methyl Alcohol              | Inhalation | respiratory system   | Not classified   | Rat                     | NOAEL 13.1 mg/l       | 6 weeks               |
| Methyl Alcohol              | Ingestion  | liver   nervous system   | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 90 days               |
| BARIUM CHROMATE             | Inhalation | respiratory system   | Causes damage to organs through prolonged or repeated exposure               | similar compounds       | NOAEL Not available   | occupational exposure |

**Aspiration Hazard**

| Name    | Value  |
|---------|--|
| MIBK    | Some positive data exist, but the data are not sufficient for classification |
| Toluene | 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**

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. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

**SECTION 16: Other information**

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

**Health: 2 Flammability: 3 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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