



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Electrical Insulating Sealer 1602-R, Red

#### Product Identification Numbers

80-6116-0633-8  
7000006033

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

##### Recommended use

Electrical

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Electrical Markets 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

Aerosol Category 1

Acute Toxicity (inhalation): Category 4.

Serious Eye Damage/Irritation: Category 2A.

Carcinogenicity: Category 2.

Reproductive Toxicity: Category 1B.

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

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

Simple Asphyxiants: Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Extremely flammable aerosol.

Pressurized container: may burst if heated.

Harmful if inhaled.

Causes serious eye irritation.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system.

**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.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe vapors, dust, or spray.

Wash exposed skin thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Call a POISON CENTER or doctor.

If eye irritation persists: Get medical advice.

**Storage:**

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

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

**Disposal:**

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

**Notes to Physician:**

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**Supplemental Information:**

Intentional concentration and inhalation may be harmful or fatal.

14% of the mixture consists of ingredients of unknown acute oral toxicity.

14% of the mixture consists of ingredients of unknown acute dermal toxicity.

88% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| Ingredient                                       | C.A.S. No.    | % by Wt                |
|--------------------------------------------------|---------------|------------------------|
| BUTANE                                           | 106-97-8      | 10 - 30 Trade Secret * |
| METHYL ACETATE                                   | 79-20-9       | 10 - 30 Trade Secret * |
| METHYL ETHYL KETONE                              | 78-93-3       | 10 - 30 Trade Secret * |
| PROPANE                                          | 74-98-6       | 10 - 30 Trade Secret * |
| Resin Epoxy Ester                                | Trade Secret* | 5 - 10                 |
| BISPHENOL A-FORMALDEHYDE RESIN                   | 25085-75-0    | 2 - 6                  |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL<br>DIISOBUTYRATE | 6846-50-0     | 1 - 5 Trade Secret *   |
| CALCIUM CARBONATE                                | 471-34-1      | 2 - 5                  |
| IRON OXIDE (FE <sub>2</sub> O <sub>3</sub> )     | 1309-37-1     | 2 - 5                  |
| METHYL ISOBUTYL KETONE                           | 108-10-1      | 1 - 5 Trade Secret *   |
| N-BUTYL ACETATE                                  | 123-86-4      | 1 - 5 Trade Secret *   |
| TOLUENE                                          | 108-88-3      | 0.1 - 1 Trade Secret * |

\*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. Get medical attention.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

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

**If Swallowed:**

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

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details.

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

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

### 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>  |
|------------------|-------------------|
| 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.

## 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 vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 6.2. Environmental precautions

Avoid release to the environment.

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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F. 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.

| Ingredient                                   | C.A.S. No. | Agency | Limit type                       | Additional Comments                         |
|----------------------------------------------|------------|--------|----------------------------------|---------------------------------------------|
| Natural gas                                  | 106-97-8   | ACGIH  | Limit value not established:     | simple asphyxiant                           |
| METHYL ISOBUTYL KETONE                       | 108-10-1   | ACGIH  | TWA:20 ppm;STEL:75 ppm           | A3: Confirmed animal carcin.                |
| METHYL ISOBUTYL KETONE                       | 108-10-1   | OSHA   | TWA:410 mg/m3(100 ppm)           |                                             |
| TOLUENE                                      | 108-88-3   | ACGIH  | TWA:20 ppm                       | A4: Not class. as human carcin, Ototoxicant |
| TOLUENE                                      | 108-88-3   | OSHA   | TWA:200 ppm;CEIL:300 ppm         |                                             |
| Butyl acetates, all isomers                  | 123-86-4   | ACGIH  | TWA:50 ppm;STEL:150 ppm          |                                             |
| N-BUTYL ACETATE                              | 123-86-4   | OSHA   | TWA:710 mg/m3(150 ppm)           |                                             |
| IRON OXIDE (FE <sub>2</sub> O <sub>3</sub> ) | 1309-37-1  | ACGIH  | TWA(respirable fraction):5 mg/m3 | A4: Not class. as human carcin              |
| IRON OXIDE (FE <sub>2</sub> O <sub>3</sub> ) | 1309-37-1  | OSHA   | TWA(as fume):10 mg/m3            |                                             |
| PROPANE                                      | 74-98-6    | ACGIH  | Limit value not established:     | simple asphyxiant                           |
| PROPANE                                      | 74-98-6    | OSHA   | TWA:1800 mg/m3(1000 ppm)         |                                             |
| METHYL ETHYL KETONE                          | 78-93-3    | ACGIH  | TWA:75 ppm;STEL:150 ppm          | Danger of cutaneous absorption              |
| METHYL ETHYL KETONE                          | 78-93-3    | OSHA   | TWA:590 mg/m3(200 ppm)           |                                             |
| METHYL ACETATE                               | 79-20-9    | ACGIH  | TWA:200 ppm;STEL:250 ppm         |                                             |
| METHYL ACETATE                               | 79-20-9    | OSHA   | TWA:610 mg/m3(200 ppm)           |                                             |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. 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:

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

### 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

Half facepiece or full facepiece supplied-air respirator

Organic vapor cartridges may have short service life.

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

|                                         |                                                            |
|-----------------------------------------|------------------------------------------------------------|
| Physical state                          | Liquid                                                     |
| Specific Physical Form:                 | Aerosol                                                    |
| Color                                   | Red                                                        |
| Odor                                    | Pungent Ketones                                            |
| Odor threshold                          | No Data Available                                          |
| pH                                      | Not Applicable                                             |
| Melting point                           | No Data Available                                          |
| Boiling Point                           | No Data Available                                          |
| Flash Point                             | 16 °F [Test Method: Closed Cup] [Details: Methyl acetate.] |
| Evaporation rate                        | No Data Available                                          |
| Flammability                            | Flammable Aerosol: Category 1.                             |
| Flammable Limits(LEL)                   | 1.4 % [Details: Liquid portion.]                           |
| Flammable Limits(UEL)                   | 16 % [Details: Liquid portion.]                            |
| Vapor Pressure                          | No Data Available                                          |
| Relative Vapor Density                  | No Data Available                                          |
| Density                                 | 792 g/l                                                    |
| Relative Density                        | 0.8 [Ref Std: WATER=1] [Details: Liquid portion.]          |
| Solubility In Water                     | No Data Available                                          |
| Solubility- non-water                   | No Data Available                                          |
| Partition coefficient: n-octanol/ water | No Data Available                                          |
| Autoignition temperature                | No Data Available                                          |
| Decomposition temperature               | No Data Available                                          |
| Kinematic Viscosity                     | Not Applicable                                             |
| Bulk density                            | No Data Available                                          |
| Percent volatile                        | 86 % volume                                                |
| Particle Characteristics                | Not Applicable                                             |

## 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

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

Hydrocarbons

Normal Use

Ketones

Normal Use

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:**

Harmful if inhaled. Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. 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:**

Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

**Eye Contact:**

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

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

**Additional Health Effects:**

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### Reproductive/Developmental Toxicity:

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

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient             | CAS No.  | Class Description             | Regulation                                  |
|------------------------|----------|-------------------------------|---------------------------------------------|
| Methyl isobutyl ketone | 108-10-1 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name                   | Route                          | Species       | Value                                          |
|------------------------|--------------------------------|---------------|------------------------------------------------|
| Overall product        | Dermal                         |               | No data available; calculated ATE >5,000 mg/kg |
| Overall product        | Inhalation-Dust/Mist(4 hr)     |               | No data available; calculated ATE >1 - =5 mg/l |
| Overall product        | Ingestion                      |               | No data available; calculated ATE >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                               |
| METHYL ACETATE         | Dermal                         | Rat           | LD50 > 2,000 mg/kg                             |
| METHYL ACETATE         | Inhalation-Vapor (4 hours)     | Rat           | LC50 > 49 mg/l                                 |
| METHYL ACETATE         | Ingestion                      | Rat           | LD50 > 5,000 mg/kg                             |
| PROPANE                | Inhalation-Gas (4 hours)       | Rat           | LC50 > 200,000 ppm                             |
| BUTANE                 | Inhalation-Gas (4 hours)       | Rat           | LC50 277,000 ppm                               |
| METHYL ISOBUTYL KETONE | Dermal                         | Rabbit        | LD50 > 16,000 mg/kg                            |
| METHYL ISOBUTYL KETONE | Inhalation-Vapor (4 hours)     | Rat           | LC50 11 mg/l                                   |
| METHYL ISOBUTYL KETONE | Ingestion                      | Rat           | LD50 3,038 mg/kg                               |
| N-BUTYL ACETATE        | Dermal                         | Rabbit        | LD50 > 14,112 mg/kg                            |
| N-BUTYL ACETATE        | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 1.8 mg/l                                  |
| N-BUTYL ACETATE        | Inhalation-Vapor (4 hours)     | Rat           | LC50 > 21 mg/l                                 |
| N-BUTYL ACETATE        | Ingestion                      | Rat           | LD50 > 10,760 mg/kg                            |
| IRON OXIDE (FE2O3)     | Dermal                         | Not available | LD50 3,100 mg/kg                               |
| IRON OXIDE (FE2O3)     | Ingestion                      | Not available | LD50 3,700 mg/kg                               |
| CALCIUM CARBONATE      | Dermal                         | Rat           | LD50 > 2,000 mg/kg                             |
| CALCIUM CARBONATE      | Inhalation-Dust/Mist (4 hours) | Rat           | LC50 3 mg/l                                    |

|                                               |                                |            |                     |
|-----------------------------------------------|--------------------------------|------------|---------------------|
| CALCIUM CARBONATE                             | Ingestion                      | Rat        | LD50 6,450 mg/kg    |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE | Dermal                         | Guinea pig | LD50 > 18,800 mg/kg |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE | Inhalation-Dust/Mist (4 hours) | Rat        | LC50 > 8 mg/l       |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE | Ingestion                      | Rat        | LD50 > 3,200 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    |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                         | Species                | Value                     |
|----------------------------------------------|------------------------|---------------------------|
| METHYL ETHYL KETONE                          | Rabbit                 | Minimal irritation        |
| METHYL ACETATE                               | Rabbit                 | No significant irritation |
| PROPANE                                      | Rabbit                 | Minimal irritation        |
| BUTANE                                       | Professional judgement | No significant irritation |
| METHYL ISOBUTYL KETONE                       | Rabbit                 | Mild irritant             |
| N-BUTYL ACETATE                              | Rabbit                 | No significant irritation |
| CALCIUM CARBONATE                            | Rabbit                 | No significant irritation |
| IRON OXIDE (FE <sub>2</sub> O <sub>3</sub> ) | Rabbit                 | No significant irritation |
| TOLUENE                                      | Rabbit                 | Irritant                  |

### Serious Eye Damage/Irritation

| Name                                         | Species | Value                     |
|----------------------------------------------|---------|---------------------------|
| METHYL ETHYL KETONE                          | Rabbit  | Severe irritant           |
| METHYL ACETATE                               | Rabbit  | Moderate irritant         |
| PROPANE                                      | Rabbit  | Mild irritant             |
| BUTANE                                       | Rabbit  | No significant irritation |
| METHYL ISOBUTYL KETONE                       | Rabbit  | Mild irritant             |
| N-BUTYL ACETATE                              | Human   | Mild irritant             |
| CALCIUM CARBONATE                            | Rabbit  | No significant irritation |
| IRON OXIDE (FE <sub>2</sub> O <sub>3</sub> ) | Rabbit  | No significant irritation |
| TOLUENE                                      | Rabbit  | Moderate irritant         |

### Skin Sensitization

| Name                                         | Species                 | Value          |
|----------------------------------------------|-------------------------|----------------|
| METHYL ACETATE                               | Human                   | Not classified |
| METHYL ISOBUTYL KETONE                       | Guinea pig              | Not classified |
| N-BUTYL ACETATE                              | Multiple animal species | Not classified |
| IRON OXIDE (FE <sub>2</sub> O <sub>3</sub> ) | Human                   | Not classified |
| TOLUENE                                      | Guinea pig              | Not classified |

### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name                | Route    | Value         |
|---------------------|----------|---------------|
| METHYL ETHYL KETONE | In Vitro | Not mutagenic |

|                        |          |               |
|------------------------|----------|---------------|
| METHYL ACETATE         | In Vitro | Not mutagenic |
| METHYL ACETATE         | In vivo  | Not mutagenic |
| PROPANE                | In Vitro | Not mutagenic |
| BUTANE                 | In Vitro | Not mutagenic |
| METHYL ISOBUTYL KETONE | In Vitro | Not mutagenic |
| N-BUTYL ACETATE        | In Vitro | Not mutagenic |
| IRON OXIDE (FE2O3)     | In Vitro | Not mutagenic |
| TOLUENE                | In Vitro | Not mutagenic |
| TOLUENE                | In vivo  | Not mutagenic |

### Carcinogenicity

| Name                   | Route      | Species                 | Value                                                                        |
|------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| METHYL ETHYL KETONE    | Inhalation | Human                   | Not carcinogenic                                                             |
| METHYL ISOBUTYL KETONE | Inhalation | Multiple animal species | Carcinogenic                                                                 |
| IRON OXIDE (FE2O3)     | Inhalation | Human                   | Some positive data exist, but the data are not sufficient for classification |
| 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 |

### 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             |
| METHYL ISOBUTYL KETONE                        | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l        | 2 generation                 |
| METHYL ISOBUTYL KETONE                        | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks                     |
| METHYL ISOBUTYL KETONE                        | Inhalation | Not classified for male reproduction   | Multiple animal species | NOAEL 8.2 mg/l        | 2 generation                 |
| METHYL ISOBUTYL KETONE                        | Inhalation | Not classified for development         | Mouse                   | NOAEL 12.3 mg/l       | during organogenesis         |
| N-BUTYL ACETATE                               | Inhalation | Not classified for female reproduction | Rat                     | NOAEL 9.5 mg/l        | 2 generation                 |
| N-BUTYL ACETATE                               | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 9.5 mg/l        | 2 generation                 |
| N-BUTYL ACETATE                               | Inhalation | Not classified for development         | Rat                     | NOAEL 3.6 mg/l        | 2 generation                 |
| CALCIUM CARBONATE                             | Ingestion  | Not classified for development         | Rat                     | NOAEL 625 mg/kg/day   | premating & during gestation |
| 2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE | Ingestion  | Toxic to development                   | Rabbit                  | NOAEL 300 mg/kg/day   | during gestation             |
| 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                 |
| 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       |

### 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    |
| METHYL ACETATE         | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal        | NOAEL Not available |                   |
| METHYL ACETATE         | Inhalation | respiratory irritation            | May cause respiratory irritation                                             | Human and animal        | NOAEL Not available |                   |
| METHYL ACETATE         | Inhalation | blindness                         | Not classified                                                               |                         | NOAEL Not available |                   |
| METHYL ACETATE         | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            |                         | NOAEL Not available |                   |
| PROPANE                | Inhalation | cardiac sensitization             | Causes damage to organs                                                      | Human                   | NOAEL Not available |                   |
| PROPANE                | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                   |
| PROPANE                | Inhalation | respiratory irritation            | Not classified                                                               | Human                   | NOAEL Not available |                   |
| BUTANE                 | Inhalation | cardiac sensitization             | Causes damage to organs                                                      | Human                   | NOAEL Not available |                   |
| BUTANE                 | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human and animal        | NOAEL Not available |                   |
| BUTANE                 | Inhalation | heart                             | Not classified                                                               | Dog                     | NOAEL 5,000 ppm     | 25 minutes        |
| BUTANE                 | Inhalation | respiratory irritation            | Not classified                                                               | Rabbit                  | NOAEL Not available |                   |
| METHYL ISOBUTYL KETONE | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | LOAEL 0.1 mg/l      | 2 hours           |
| METHYL ISOBUTYL KETONE | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                   |
| METHYL ISOBUTYL KETONE | Inhalation | vascular system                   | Not classified                                                               | Dog                     | NOAEL Not available | not available     |
| METHYL ISOBUTYL KETONE | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Rat                     | LOAEL 900 mg/kg     | not applicable    |
| N-BUTYL ACETATE        | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | not available     |
| N-BUTYL ACETATE        | Inhalation | respiratory irritation            | May cause respiratory irritation                                             | Human                   | NOAEL Not available | not available     |
| N-BUTYL ACETATE        | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgement  | NOAEL Not available |                   |
| CALCIUM CARBONATE      | Inhalation | respiratory system                | Not classified                                                               | Rat                     | NOAEL 0.812 mg/l    | 90 minutes        |
| 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<br>0.004 mg/l    | 3 hours                   |
| TOLUENE | Ingestion  | central nervous<br>system depression | May cause drowsiness or<br>dizziness | Human | NOAEL Not<br>available | poisoning<br>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                           | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | heart                           | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | endocrine system                | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | gastrointestinal tract          | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | bone, teeth, nails, and/or hair | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | immune system                   | Not classified                                                               | Rat                     | NOAEL 14.7 mg/l     | 90 days           |
| METHYL ETHYL KETONE    | Inhalation | 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           |
| METHYL ACETATE         | Inhalation | respiratory system              | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1.1 mg/l      | 28 days           |
| METHYL ACETATE         | Inhalation | endocrine system                | Not classified                                                               | Rat                     | NOAEL 6.1 mg/l      | 28 days           |
| METHYL ACETATE         | Inhalation | hematopoietic system            | Not classified                                                               | Rat                     | NOAEL 6.1 mg/l      | 28 days           |
| METHYL ACETATE         | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 6.1 mg/l      | 28 days           |
| METHYL ACETATE         | Inhalation | immune system                   | Not classified                                                               | Rat                     | NOAEL 6.1 mg/l      | 28 days           |
| METHYL ACETATE         | Inhalation | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 6.1 mg/l      | 28 days           |
| BUTANE                 | Inhalation | kidney and/or bladder           | Not classified                                                               | Rat                     | NOAEL 4,489 ppm     | 90 days           |
| BUTANE                 | Inhalation | blood                           | Not classified                                                               | Rat                     | NOAEL 4,489 ppm     | 90 days           |
| METHYL ISOBUTYL KETONE | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 0.41 mg/l     | 13 weeks          |
| METHYL ISOBUTYL KETONE | Inhalation | heart                           | Not classified                                                               | Multiple animal species | NOAEL 0.8 mg/l      | 2 weeks           |
| METHYL ISOBUTYL KETONE | Inhalation | kidney and/or bladder           | Not classified                                                               | Multiple animal species | NOAEL 0.4 mg/l      | 90 days           |
| METHYL ISOBUTYL KETONE | Inhalation | respiratory system              | Not classified                                                               | Multiple animal species | NOAEL 4.1 mg/l      | 14 weeks          |
| METHYL ISOBUTYL KETONE | Inhalation | endocrine system                | Not classified                                                               | Multiple animal species | NOAEL 0.41 mg/l     | 90 days           |
| METHYL ISOBUTYL KETONE | Inhalation | hematopoietic system            | Not classified                                                               | Multiple animal species | NOAEL 0.41 mg/l     | 90 days           |

|                        |            |                                 |                                                                |                         |                       |                        |
|------------------------|------------|---------------------------------|----------------------------------------------------------------|-------------------------|-----------------------|------------------------|
| METHYL ISOBUTYL KETONE | Inhalation | nervous system                  | Not classified                                                 | Multiple animal species | NOAEL 0.41 mg/l       | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | endocrine system                | Not classified                                                 | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | hematopoietic system            | Not classified                                                 | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | liver                           | Not classified                                                 | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | kidney and/or bladder           | Not classified                                                 | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | heart                           | Not classified                                                 | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| METHYL ISOBUTYL KETONE | Ingestion  | immune system                   | Not classified                                                 | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| METHYL ISOBUTYL KETONE | Ingestion  | muscles                         | Not classified                                                 | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| METHYL ISOBUTYL KETONE | Ingestion  | nervous system                  | Not classified                                                 | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| METHYL ISOBUTYL KETONE | Ingestion  | respiratory system              | Not classified                                                 | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| N-BUTYL ACETATE        | Inhalation | endocrine system                | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | hematopoietic system            | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | liver                           | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | nervous system                  | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | kidney and/or bladder           | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | gastrointestinal tract          | Not classified                                                 | Rat                     | NOAEL 4.8 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | respiratory system              | Not classified                                                 | Rat                     | NOAEL 4.8 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | heart                           | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | bone, teeth, nails, and/or hair | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | immune system                   | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | eyes                            | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| N-BUTYL ACETATE        | Inhalation | vascular system                 | Not classified                                                 | Rat                     | NOAEL 9.6 mg/l        | 13 weeks               |
| CALCIUM CARBONATE      | Inhalation | respiratory system              | Not classified                                                 | Human                   | NOAEL Not available   | occupational exposure  |
| IRON OXIDE (FE2O3)     | Inhalation | pulmonary fibrosis              | Not classified                                                 | Human                   | NOAEL Not available   | occupational exposure  |
| IRON OXIDE (FE2O3)     | Inhalation | pneumoconiosis                  | Not classified                                                 | Human                   | NOAEL Not available   | occupational exposure  |
| TOLUENE                | Inhalation | auditory system                 | Causes damage to organs through prolonged or repeated exposure | Human                   | NOAEL Not available   | poisoning and/or abuse |
| TOLUENE                | Inhalation | nervous system                  | Causes damage to organs through prolonged or repeated exposure | Human                   | NOAEL Not available   | poisoning and/or abuse |
| TOLUENE                | Inhalation | eyes                            | Causes damage to organs through prolonged or repeated exposure | Human                   | NOAEL Not available   | poisoning and/or abuse |
| TOLUENE                | Inhalation | olfactory system                | Causes damage to organs through                                | Human                   | NOAEL Not             | poisoning              |

|         |            |                                 | prolonged or repeated exposure                                               |                         | available             | 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                           | Not classified                                                               | Rat                     | NOAEL 11.3 mg/l       | 15 weeks              |
| TOLUENE | Inhalation | liver                           | Not classified                                                               | Rat                     | NOAEL 11.3 mg/l       | 15 weeks              |
| TOLUENE | Inhalation | 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            | Not classified                                                               | Human                   | NOAEL Not available   | occupational exposure |
| TOLUENE | Inhalation | 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              |
| TOLUENE | Ingestion  | liver                           | Not classified                                                               | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks              |
| TOLUENE | Ingestion  | 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               |

**Aspiration Hazard**

| Name                   | Value                                                                        |
|------------------------|------------------------------------------------------------------------------|
| METHYL ISOBUTYL KETONE | 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****Ecotoxicological information**

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

**Chemical fate information**

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

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal 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.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D035 (Methyl ethyl ketone)

## 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

Flammable (gases, aerosols, liquids, or solids)

##### Health Hazards

Acute toxicity

Carcinogenicity

Reproductive toxicity

Serious eye damage or eye irritation

Simple Asphyxiant

Specific target organ toxicity (single or repeated exposure)

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

#### Ingredient

METHYL ISOBUTYL KETONE

#### C.A.S. No

108-10-1

#### % by Wt

Trade Secret 1 - 5

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. One or more chemical components of this material have been commercialized under the TSCA polymer exemption at 40CFR723.250. Polymers subject to this exemption are not listed on the TSCA Inventory, but are in compliance with TSCA requirements.

Contact 3M for more information.

## 15.4. International Regulations

Contact 3M for more information.

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

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 2 **Flammability:** 4 **Instability:** 0 **Special Hazards:** None

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

### HMIS Hazard Classification

**Health:** \*4 **Flammability:** 4 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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**Supersedes Date:** 08/06/25

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