

# **Safety Data Sheet**

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# **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>™</sup> Hi-Strength 90 Cylinder Spray Adhesive, Clear

### **Product Identification Numbers**

62-4994-8030-9, 62-4994-8031-7, 62-4994-8150-5, 62-4994-8300-6 7010330403, 7100139490, 7000028603, 7100231643

### 1.2. Recommended use and restrictions on use

**Recommended use** 

Adhesive. Industrial use

| 1.3. Supplier's details |   |
|-------------------------|---|
| MANUFACTURER:           | 3M                                      |
| DIVISION:               | Industrial Adhesives and Tapes Division |
| ADDRESS:                | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone:              | 1-888-3M HELPS (1-888-364-3577)         |

**1.4. Emergency telephone number** 1-800-364-3577 or (651) 737-6501 (24 hours)

## **SECTION 2: Hazard identification**

### 2.1. Hazard classification

Flammable Liquid: Category 1. Serious Eye Damage/Irritation: Category 2A. Reproductive Toxicity: Category 1B. Simple Asphyxiant. Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements Signal word Danger

**Symbols** Flame | Exclamation mark | Health Hazard | Pictograms



Hazard Statements Extremely flammable liquid and vapor.

Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility or the unborn child. May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system |

### **Precautionary Statements**

#### **Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

### **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/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 exposed or concerned: Get medical advice/attention. Specific treatment (see Notes to Physician on this label). 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.

### 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.

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

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| Dimethyl Ether                                     | 115-10-6      | 15 - 40 Trade Secret * |
| Acetone  | 67-64-1       | 10 - 30 Trade Secret * |
| Pentane  | 109-66-0      | 10 - 30 Trade Secret * |
| Cyclohexane  | 110-82-7      | 10 - 24 Trade Secret * |
| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer  | 31393-98-3    | 5 - 20 Trade Secret *  |
| With 6,6-Dimethyl-2-Methylenebicyclo[3.1.1]Heptane |               |                        |
| Isobutane  | 75-28-5       | 5 - 15 Trade Secret *  |
| Non-Volatile Components (NJTS Reg. No. 04499600-   | Trade Secret* | 1 - 15 Trade Secret *  |
| 6133P)   |               |                        |
| Propane  | 74-98-6       | 5 - 10 Trade Secret *  |
| Toluene  | 108-88-3      | < 1 Trade Secret *     |
| Methyl Alcohol                                     | 67-56-1       | < 0.3 Trade Secret *   |
| Methylene Chloride                                 | 75-09-2       | < 0.01 Trade Secret *  |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. 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

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

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 |
| Hydrocarbons                  | During Combustion |
| Formaldehyde                  | During Combustion |
| Methane                       | During Combustion |
| Carbon monoxide               | During Combustion |
| Carbon dioxide                | During Combustion |
| Ketones                       | During Combustion |
| Toxic Vapor, Gas, Particulate | 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 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. 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/occupational 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/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 release to the environment. 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.

| Ingredient         | C.A.S. No. | Agency | Limit type                   | Additional Comments     |
|--------------------|------------|--------|------------------------------|-------------------------|
| 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     |                         |
| Pentane            | 109-66-0   | ACGIH  | TWA:1000 ppm                 |                         |
| Pentane            | 109-66-0   | OSHA   | TWA:2950 mg/m3(1000 ppm)     |                         |
| Cyclohexane        | 110-82-7   | ACGIH  | TWA:100 ppm                  |                         |
| Cyclohexane        | 110-82-7   | OSHA   | TWA:1050 mg/m3(300 ppm)      |                         |
| Dimethyl Ether     | 115-10-6   | AIHA   | TWA:1880 mg/m3(1000 ppm)     |                         |
| Methyl Alcohol     | 67-56-1    | ACGIH  | TWA:200 ppm;STEL:250 ppm     | Danger of cutaneous     |
|                    |            |        |                              | absorption              |
| Methyl Alcohol     | 67-56-1    | OSHA   | TWA:260 mg/m3(200 ppm)       |                         |
| Acetone            | 67-64-1    | ACGIH  | TWA:250 ppm;STEL:500 ppm     | A4: Not class. as human |
|                    |            |        |                              | carcin                  |
| Acetone            | 67-64-1    | OSHA   | TWA:2400 mg/m3(1000 ppm)     |                         |
| Propane            | 74-98-6    | ACGIH  | Limit value not established: | simple asphyxiant       |
| Propane            | 74-98-6    | OSHA   | TWA:1800 mg/m3(1000 ppm)     |                         |
| Methylene Chloride | 75-09-2    | ACGIH  | TWA:50 ppm                   | A3: Confirmed animal    |
|                    |            |        |                              | carcin.                 |
| Methylene Chloride | 75-09-2    | OSHA   | TWA:25 ppm;STEL:125 ppm      | 29 CFR 1910.1052,       |
|                    |            |        |                              | SKIN                    |
| Isobutane          | 75-28-5    | ACGIH  | STEL:1000 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. 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

### **Respiratory protection**

Annoananaa

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

| Appearance                              |   |
|---|---|
| Physical state                          | Liquid  |
| Color                                   | Colorless   |
|   | Mild Colored  |
| Odor                                    | Mild Solvent  |
| Odor threshold                          | No Data Available   |
| рН                                      | Not Applicable  |
| Melting point                           | Not Applicable  |
| Boiling Point                           | <=68 °F   |
| Flash Point                             | -50 °F [ <i>Test Method</i> :Closed Cup] [ <i>Details</i> :Flammable Gas] |
| Evaporation rate                        | No Data Available   |
| Flammability (solid, gas)               | Not Applicable  |
| Flammable Limits(LEL)                   | 1.2 % volume  |
| Flammable Limits(UEL)                   | 27 % volume   |
| Vapor Pressure                          | 84.7 psia [@ 68 °F]   |
| Vapor Density                           | >=1.0 [Ref Std:AIR=1]   |
| Density                                 | 0.69 g/ml   |
| Specific Gravity                        | 0.69 [ <i>Ref Std</i> :WATER=1]   |
| Solubility in Water                     | Nil   |
| Solubility- non-water                   | No Data Available   |
| Partition coefficient: n-octanol/ water | No Data Available   |
| Autoignition temperature                | No Data Available   |
| Decomposition temperature               | Not Applicable  |
| Viscosity                               | Not Applicable  |
| Hazardous Air Pollutants                | 0 % weight [ <i>Test Method</i> :Calculated]                              |
| VOC Less H2O & Exempt Solvents          | <=592 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]             |
| Solids Content                          | 10 - 30 %   |
|   |   |

## **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

<u>Substance</u>

<u>Condition</u>

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

#### Inhalation:

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:

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

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:**

| Ingredient                           | CAS No. | Class Description             | Regulation                                  |
|--------------------------------------|---------|-------------------------------|---|
| Dichloromethane (methylene chloride) | 75-09-2 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Dichloromethane (Methylene Chloride) | 75-09-2 | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |
| METHYLENE CHLORIDE                   | 75-09-2 | Cancer hazard                 | OSHA Carcinogens                            |

### **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-<br>Vapor(4 hr)        |                                   | No data available; calculated ATE >50 mg/l     |
| Overall product  | Ingestion                         |                                   | No data available; calculated ATE >5,000 mg/kg |
| Dimethyl Ether   | Inhalation-<br>Gas (4<br>hours)   | Rat                               | LC50 164,000 ppm                               |
| Acetone  | Dermal                            | Rabbit                            | LD50 > 15,688 mg/kg                            |
| Acetone  | Inhalation-<br>Vapor (4<br>hours) | Rat                               | LC50 76 mg/l                                   |
| Acetone  | Ingestion                         | Rat                               | LD50 5,800 mg/kg                               |
| Pentane  | Dermal                            | Rabbit                            | LD50 3,000 mg/kg                               |
| Pentane  | Inhalation-<br>Vapor (4<br>hours) | Rat                               | LC50 > 18 mg/l                                 |
| Pentane  | Ingestion                         | Rat                               | LD50 > 2,000 mg/kg                             |
| Isobutane  | Inhalation-<br>Gas (4<br>hours)   | Rat                               | LC50 276,000 ppm                               |
| Propane  | Inhalation-<br>Gas (4<br>hours)   | Rat                               | LC50 > 200,000 ppm                             |
| Cyclohexane  | Dermal                            | Rat                               | LD50 > 2,000  mg/kg                            |
| Cyclohexane  | Inhalation-<br>Vapor (4<br>hours) | Rat                               | LC50 > 32.9 mg/l                               |
| Cyclohexane  | Ingestion                         | Rat                               | LD50 6,200 mg/kg                               |
| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer With 6,6-<br>Dimethyl-2-Methylenebicyclo[3.1.1]Heptane | Dermal                            | Professio<br>nal<br>judgeme<br>nt | LD50 estimated to be > 5,000 mg/kg             |

| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer With 6,6-<br>Dimethyl-2-Methylenebicyclo[3.1.1]Heptane | Ingestion                         | Rat              | LD50 > 2,000 mg/kg                       |
|--|-----------------------------------|------------------|--|
| Toluene  | Dermal                            | Rat              | LD50 12,000 mg/kg                        |
| Toluene  | Inhalation-<br>Vapor (4<br>hours) | Rat              | LC50 30 mg/l                             |
| Toluene  | Ingestion                         | Rat              | LD50 5,550 mg/kg                         |
| Non-Volatile Components (NJTS Reg. No. 04499600-6133P)   | Dermal                            | Not<br>available | LD50 > 2,000 mg/kg                       |
| Non-Volatile Components (NJTS Reg. No. 04499600-6133P)   | Ingestion                         | Not<br>available | LD50 > 2,000 mg/kg                       |
| Methyl Alcohol   | Dermal                            |                  | LD50 estimated to be 1,000 - 2,000 mg/kg |
| Methyl Alcohol   | Inhalation-<br>Vapor              |                  | LC50 estimated to be 10 - 20 mg/l        |
| Methyl Alcohol   | Ingestion                         |                  | LD50 estimated to be 50 - 300 mg/kg      |
| Methylene Chloride   | Dermal                            | Rat              | LD50 > 2,000 mg/kg                       |
| Methylene Chloride   | Inhalation-<br>Vapor (4<br>hours) | Rat              | LC50 63.7 mg/l                           |
| Methylene Chloride   | Ingestion                         | Rat              | LD50 1,410 mg/kg                         |

ATE = acute toxicity estimate

## **Skin Corrosion/Irritation**

| Name   | Species   | Value                     |
|--|-----------|---------------------------|
|  |           |                           |
| Acetone  | Mouse     | Minimal irritation        |
| Pentane  | Rabbit    | Minimal irritation        |
| Isobutane  | Professio | No significant irritation |
|  | nal       |                           |
|  | judgeme   |                           |
|  | nt        |                           |
| Propane  | Rabbit    | Minimal irritation        |
| Cyclohexane  | Rabbit    | Mild irritant             |
| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer With 6,6-Dimethyl-2- | In vitro  | No significant irritation |
| Methylenebicyclo[3.1.1]Heptane   | data      |                           |
| Toluene  | Rabbit    | Irritant                  |
| Non-Volatile Components (NJTS Reg. No. 04499600-6133P)                 | Professio | No significant irritation |
|  | nal       |                           |
|  | judgeme   |                           |
|  | nt        |                           |
| Methyl Alcohol   | Rabbit    | Mild irritant             |
| Methylene Chloride   | Rabbit    | Irritant                  |

### Serious Eye Damage/Irritation

| Name   | Species                           | Value                     |
|--|-----------------------------------|---------------------------|
| Acetone  | Rabbit                            | Severe irritant           |
| Pentane  | Rabbit                            | Mild irritant             |
| Isobutane  | Professio<br>nal<br>judgeme<br>nt | No significant irritation |
| Propane  | Rabbit                            | Mild irritant             |
| Cyclohexane  | Rabbit                            | Mild irritant             |
| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer With 6,6-Dimethyl-2-<br>Methylenebicyclo[3.1.1]Heptane | In vitro<br>data                  | No significant irritation |
| Toluene  | Rabbit                            | Moderate irritant         |
| Non-Volatile Components (NJTS Reg. No. 04499600-6133P)   | Professio<br>nal<br>judgeme<br>nt | No significant irritation |
| Methyl Alcohol   | Rabbit                            | Moderate irritant         |
| Methylene Chloride   | Rabbit                            | Severe irritant           |

### **Skin Sensitization**

| Name   | Species  | Value          |
|--|----------|----------------|
| Pentane  | Guinea   | Not classified |
|  | pig      |                |
| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer With 6,6-Dimethyl-2- | Multiple | Not classified |
| Methylenebicyclo[3.1.1]Heptane   | animal   |                |
|  | species  |                |
| Toluene  | Guinea   | Not classified |
|  | pig      |                |
| Non-Volatile Components (NJTS Reg. No. 04499600-6133P)                 |          | Not classified |
| Methyl Alcohol   | Guinea   | Not classified |
|  | pig      |                |

## **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  |
|--|----------|--|
| Dimethyl Ether   | In Vitro | Not mutagenic  |
| Dimethyl Ether   | In vivo  | Not mutagenic<br>Not mutagenic   |
| Acetone  | In vivo  | Not mutagenic  |
| Acetone  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Pentane  | In vivo  | Not mutagenic  |
| Pentane  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Isobutane  | In Vitro | Not mutagenic  |
| Propane  | In Vitro | Not mutagenic  |
| Cyclohexane  | In Vitro | Not mutagenic  |
| Cyclohexane  | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Bicyclo[3.1.1]Hept-2-Ene,2,6,6-Trimethyl-,Polymer With 6,6-Dimethyl-2-<br>Methylenebicyclo[3.1.1]Heptane | In Vitro | Not mutagenic  |
| Toluene  | In Vitro | Not mutagenic  |
| Toluene  | In vivo  | Not mutagenic  |
| Methyl Alcohol   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol   | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Methylene Chloride   | In vivo  | Not mutagenic  |
| Methylene Chloride   | In Vitro | Some positive data exist, but the data are not sufficient for classification |

## Carcinogenicity

| Name               | Route            | Species            | Value  |
|--------------------|------------------|--------------------|--|
| Dimethyl Ether     | Inhalation       | Rat                | Not carcinogenic   |
| Acetone            | Not<br>Specified | Multiple<br>animal | Not carcinogenic   |
|                    | Speemea          | species            |  |
| 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 |
| Methyl Alcohol     | Inhalation       | Multiple           | Not carcinogenic   |
|                    |                  | animal             |  |
|                    |                  | species            |  |
| Methylene Chloride | Inhalation       | Multiple           | Carcinogenic   |
|                    |                  | animal             |  |
|                    |                  | species            |  |

## **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

| Name               | Route      | Value                                  | Species                       | Test Result              | Exposure<br>Duration        |
|--------------------|------------|--|-------------------------------|--------------------------|-----------------------------|
| Dimethyl Ether     | Inhalation | Not classified for development         | Rat                           | NOAEL<br>40,000 ppm      | during<br>organogenesi<br>s |
| Acetone            | Ingestion  | Not classified for male reproduction   | Rat                           | NOAEL 1,700<br>mg/kg/day | 13 weeks                    |
| Acetone            | Inhalation | Not classified for development         | Rat                           | NOAEL 5.2<br>mg/l        | during<br>organogenesi<br>s |
| Pentane            | Ingestion  | Not classified for development         | Rat                           | NOAEL 1,000<br>mg/kg/day | during<br>organogenesi<br>s |
| Pentane            | Inhalation | Not classified for development         | Rat                           | NOAEL 30<br>mg/l         | during<br>organogenesi<br>s |
| Cyclohexane        | Inhalation | Not classified for female reproduction | Rat                           | NOAEL 24<br>mg/l         | 2 generation                |
| Cyclohexane        | Inhalation | Not classified for male reproduction   | Rat                           | NOAEL 24<br>mg/l         | 2 generation                |
| Cyclohexane        | Inhalation | Not classified for development         | Rat                           | NOAEL 6.9<br>mg/l        | 2 generation                |
| Toluene            | Inhalation | Not classified for female reproduction | Human                         | NOAEL Not<br>available   | occupational exposure       |
| Toluene            | Inhalation | Not classified for male reproduction   | Rat                           | NOAEL 2.3<br>mg/l        | 1 generation                |
| Toluene            | Ingestion  | Toxic to development                   | Rat                           | LOAEL 520<br>mg/kg/day   | during<br>gestation         |
| Toluene            | Inhalation | Toxic to development                   | Human                         | NOAEL Not<br>available   | poisoning<br>and/or abuse   |
| Methyl Alcohol     | Ingestion  | Not classified for male reproduction   | Rat                           | NOAEL 1,600<br>mg/kg/day | 21 days                     |
| Methyl Alcohol     | Ingestion  | Toxic to development                   | Mouse                         | LOAEL 4,000<br>mg/kg/day | during<br>organogenesi<br>s |
| Methyl Alcohol     | Inhalation | Toxic to development                   | Mouse                         | NOAEL 1.3<br>mg/l        | during<br>organogenesi<br>s |
| Methylene Chloride | Inhalation | Not classified for female reproduction | Rat                           | NOAEL 5.2<br>mg/l        | 2 generation                |
| Methylene Chloride | Inhalation | Not classified for male reproduction   | Rat                           | NOAEL 5.2<br>mg/l        | 2 generation                |
| Methylene Chloride | Inhalation | Not classified for development         | Multiple<br>animal<br>species | NOAEL 4.3<br>mg/l        | during<br>gestation         |

# Target Organ(s)

# Specific Target Organ Toxicity - single exposure

| Name           | Route      | Target Organ(s)                      | Value  | Species | Test Result            | Exposure<br>Duration |
|----------------|------------|--------------------------------------|--|---------|------------------------|----------------------|
| Dimethyl Ether | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Rat     | LOAEL<br>10,000 ppm    | 30 minutes           |
| Dimethyl Ether | Inhalation | cardiac sensitization                | Some positive data exist, but the data are not sufficient for classification | Dog     | NOAEL<br>100,000 ppm   | 5 minutes            |
| Acetone        | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human   | NOAEL Not<br>available |                      |
| Acetone        | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Human   | NOAEL Not<br>available |                      |
| Acetone        | Inhalation | immune system                        | Not classified   | Human   | NOAEL 1.19             | 6 hours              |

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|                    |            |                                      |  |                                   | mg/l                   |                           |
|--------------------|------------|--------------------------------------|--|-----------------------------------|------------------------|---------------------------|
| Acetone            | Inhalation | liver                                | Not classified   | Guinea<br>pig                     | NOAEL Not<br>available |                           |
| Acetone            | Ingestion  | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                             | NOAEL Not<br>available | poisoning<br>and/or abuse |
| Pentane            | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Multiple<br>animal<br>species     | NOAEL Not<br>available | not available             |
| Pentane            | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Not<br>available                  | NOAEL Not<br>available | not available             |
| Pentane            | Inhalation | cardiac sensitization                | Not classified   | Dog                               | NOAEL Not<br>available | not available             |
| Pentane            | Ingestion  | central nervous<br>system depression | May cause drowsiness or<br>dizziness   | Professio<br>nal<br>judgeme<br>nt | NOAEL Not<br>available | not available             |
| Isobutane          | Inhalation | cardiac sensitization                | Causes damage to organs  | Multiple<br>animal<br>species     | NOAEL Not<br>available |                           |
| Isobutane          | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human<br>and<br>animal            | NOAEL Not<br>available |                           |
| Isobutane          | Inhalation | respiratory irritation               | Not classified   | Mouse                             | NOAEL Not<br>available |                           |
| Propane            | Inhalation | cardiac sensitization                | Causes damage to organs  | Human                             | NOAEL Not<br>available |                           |
| Propane            | Inhalation | central nervous<br>system depression | May cause drowsiness or<br>dizziness   | Human                             | NOAEL Not<br>available |                           |
| Propane            | Inhalation | respiratory irritation               | Not classified   | Human                             | NOAEL Not<br>available |                           |
| Cyclohexane        | Inhalation | central nervous<br>system depression | May cause drowsiness or<br>dizziness   | Human<br>and<br>animal            | NOAEL Not<br>available |                           |
| Cyclohexane        | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Human<br>and<br>animal            | NOAEL Not<br>available |                           |
| Cyclohexane        | Ingestion  | central nervous<br>system depression | May cause drowsiness or dizziness  | Professio<br>nal<br>judgeme<br>nt | NOAEL Not<br>available |                           |
| Toluene            | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                             | NOAEL Not<br>available |                           |
| Toluene            | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Human                             | NOAEL Not<br>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 dizziness  | Human                             | NOAEL Not<br>available | poisoning<br>and/or abuse |
| Methyl Alcohol     | Inhalation | blindness                            | Causes damage to organs  | Human                             | NOAEL Not<br>available | occupational exposure     |
| Methyl Alcohol     | Inhalation | central nervous<br>system depression | May cause drowsiness or<br>dizziness   | Human                             | NOAEL Not<br>available | not available             |
| Methyl Alcohol     | Inhalation | respiratory irritation               | Some positive data exist, but the data are not sufficient for classification | Rat                               | NOAEL Not<br>available | 6 hours                   |
| Methyl Alcohol     | Ingestion  | blindness                            | Causes damage to organs  | Human                             | NOAEL Not<br>available | poisoning<br>and/or abuse |
| Methyl Alcohol     | Ingestion  | central nervous<br>system depression | May cause drowsiness or<br>dizziness   | Human                             | NOAEL Not<br>available | poisoning<br>and/or abuse |
| Methylene Chloride | Dermal     | blood                                | Some positive data exist, but the data are not sufficient for classification | Rat                               | NOAEL Not<br>available | 4 hours                   |
| Methylene Chloride | Inhalation | central nervous<br>system depression | May cause drowsiness or dizziness  | Human                             | NOAEL Not<br>available | occupational exposure     |
| Methylene Chloride | Inhalation | blood                                | Some positive data exist, but the  | Human                             | NOAEL Not              |                           |

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|                    |            |                        | data are not sufficient for<br>classification                                | available              |  |
|--------------------|------------|------------------------|--|------------------------|--|
| Methylene Chloride | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | NOAEL Not<br>available |  |

## Specific Target Organ Toxicity - repeated exposure

| Name           | Route      | Target Organ(s)  | Value          | Species       | Test Result                  | Exposure<br>Duration  |
|----------------|------------|--|----------------|---------------|------------------------------|-----------------------|
| Dimethyl Ether | Inhalation | hematopoietic<br>system  | Not classified | Rat           | NOAEL<br>25,000 ppm          | 2 years               |
| Dimethyl Ether | Inhalation | liver  | Not classified | Rat           | NOAEL<br>20,000 ppm          | 30 weeks              |
| Acetone        | Dermal     | eyes   | Not classified | Guinea<br>pig | NOAEL Not<br>available       | 3 weeks               |
| Acetone        | Inhalation | hematopoietic<br>system  | Not classified | Human         | NOAEL 3<br>mg/l              | 6 weeks               |
| Acetone        | Inhalation | immune system  | Not classified | Human         | NOAEL 1.19<br>mg/l           | 6 days                |
| Acetone        | Inhalation | kidney and/or<br>bladder   | Not classified | Guinea<br>pig | NOAEL 119<br>mg/l            | not available         |
| Acetone        | Inhalation | heart   liver  | Not classified | Rat           | NOAEL 45<br>mg/l             | 8 weeks               |
| Acetone        | Ingestion  | kidney and/or<br>bladder   | Not classified | Rat           | NOAEL 900<br>mg/kg/day       | 13 weeks              |
| Acetone        | Ingestion  | heart  | Not classified | Rat           | NOAEL<br>2,500<br>mg/kg/day  | 13 weeks              |
| Acetone        | Ingestion  | hematopoietic<br>system  | Not classified | Rat           | NOAEL 200<br>mg/kg/day       | 13 weeks              |
| Acetone        | Ingestion  | liver  | Not classified | Mouse         | NOAEL<br>3,896<br>mg/kg/day  | 14 days               |
| Acetone        | Ingestion  | eyes   | Not classified | Rat           | NOAEL<br>3,400<br>mg/kg/day  | 13 weeks              |
| Acetone        | Ingestion  | respiratory system   | Not classified | Rat           | NOAEL<br>2,500<br>mg/kg/day  | 13 weeks              |
| Acetone        | Ingestion  | muscles  | Not classified | Rat           | NOAEL<br>2,500 mg/kg         | 13 weeks              |
| Acetone        | Ingestion  | skin   bone, teeth,<br>nails, and/or hair  | Not classified | Mouse         | NOAEL<br>11,298<br>mg/kg/day | 13 weeks              |
| Pentane        | Inhalation | peripheral nervous<br>system   | Not classified | Human         | NOAEL Not<br>available       | occupational exposure |
| Pentane        | Inhalation | heart   skin  <br>endocrine system  <br>gastrointestinal tract<br>  bone, teeth, nails,<br>and/or hair  <br>hematopoietic<br>system   liver  <br>immune system  <br>muscles   nervous<br>system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system | Not classified | Rat           | NOAEL 20<br>mg/l             | 13 weeks              |
| Pentane        | Ingestion  | kidney and/or<br>bladder   | Not classified | Rat           | NOAEL<br>2,000<br>mg/kg/day  | 28 days               |
| Isobutane      | Inhalation | kidney and/or<br>bladder   | Not classified | Rat           | NOAEL<br>4,500 ppm           | 13 weeks              |
| Cyclohexane    | Inhalation | liver  | Not classified | Rat           | NOAEL 24<br>mg/l             | 90 days               |
| Cyclohexane    | Inhalation | auditory system  | Not classified | Rat           | NOAEL 1.7                    | 90 days               |

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| Cualabayana   | Inholation | luidnay, and/ar   | Not classified   | Rabbit                        | mg/l<br>NOAEL 2.7           | 10 weeks                  |
|---|------------|---|--|-------------------------------|-----------------------------|---------------------------|
| Cyclohexane   | Inhalation | kidney and/or<br>bladder  |  |                               | mg/l                        |                           |
| Cyclohexane   | Inhalation | hematopoietic<br>system   | Not classified   | Mouse                         | NOAEL 24<br>mg/l            | 14 weeks                  |
| Cyclohexane   | Inhalation | peripheral nervous<br>system  | Not classified   | Rat                           | NOAEL 8.6<br>mg/l           | 30 weeks                  |
| Bicyclo[3.1.1]Hept-2-<br>Ene,2,6,6-<br>Trimethyl-,Polymer With<br>6,6-Dimethyl-2-<br>Methylenebicyclo[3.1.1]He<br>ptane | Ingestion  | heart  <br>gastrointestinal tract<br>  hematopoietic<br>system   liver  <br>nervous system  <br>eyes   kidney and/or<br>bladder | Not classified   | Rat                           | NOAEL 331<br>mg/kg/day      | 90 days                   |
| Toluene   | Inhalation | auditory system  <br>nervous system  <br>eyes   olfactory<br>system   | Causes damage to organs through prolonged or repeated exposure               | Human                         | NOAEL Not<br>available      | poisoning<br>and/or abuse |
| Toluene   | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat                           | LOAEL 2.3<br>mg/l           | 15 months                 |
| Toluene   | Inhalation | heart   liver   kidney<br>and/or bladder  | Not classified   | Rat                           | NOAEL 11.3<br>mg/l          | 15 weeks                  |
| Toluene   | Inhalation | endocrine system  | Not classified   | Rat                           | NOAEL 1.1<br>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<br>mg/l           | 8 weeks                   |
| Toluene   | Inhalation | hematopoietic<br>system   vascular<br>system  | Not classified   | Human                         | NOAEL Not<br>available      | occupational<br>exposure  |
| Toluene   | Inhalation | gastrointestinal tract  | Not classified   | Multiple<br>animal<br>species | NOAEL 11.3<br>mg/l          | 15 weeks                  |
| Toluene   | Ingestion  | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 625<br>mg/kg/day      | 13 weeks                  |
| Toluene   | Ingestion  | heart   | Not classified   | Rat                           | NOAEL<br>2,500<br>mg/kg/day | 13 weeks                  |
| Toluene   | Ingestion  | liver   kidney and/or<br>bladder  | Not classified   | Multiple<br>animal<br>species | NOAEL<br>2,500<br>mg/kg/day | 13 weeks                  |
| Toluene   | Ingestion  | hematopoietic<br>system   | Not classified   | Mouse                         | NOAEL 600<br>mg/kg/day      | 14 days                   |
| Toluene   | Ingestion  | endocrine system  | Not classified   | Mouse                         | NOAEL 105<br>mg/kg/day      | 28 days                   |
| Toluene   | Ingestion  | immune system   | Not classified   | Mouse                         | NOAEL 105<br>mg/kg/day      | 4 weeks                   |
| Methyl Alcohol  | Inhalation | liver   | Not classified   | Rat                           | NOAEL 6.55<br>mg/l          | 4 weeks                   |
| Methyl Alcohol  | Inhalation | respiratory system  | Not classified   | Rat                           | NOAEL 13.1<br>mg/l          | 6 weeks                   |
| Methyl Alcohol  | Ingestion  | liver   nervous<br>system   | Not classified   | Rat                           | NOAEL<br>2,500<br>mg/kg/day | 90 days                   |
| Methylene Chloride  | Inhalation | kidney and/or<br>bladder  | Some positive data exist, but the data are not sufficient for classification | Rat                           | LOAEL 6.95<br>mg/l          | 2 years                   |
| Methylene Chloride  | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rat                           | NOAEL 0.17<br>mg/l          | 2 years                   |
| Methylene Chloride  | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Multiple<br>animal<br>species | LOAEL 35<br>mg/l            | 8 weeks                   |
| Methylene Chloride  | Inhalation | heart   | Not classified   | Human                         | NOAEL Not                   |                           |

|                    |            |               |                                   |     | available |           |
|--------------------|------------|---------------|-----------------------------------|-----|-----------|-----------|
| Methylene Chloride | Inhalation | immune system | Not classified                    | Rat | NOAEL 18  | 28 days   |
|                    |            |               |                                   |     | mg/l      |           |
| Methylene Chloride | Ingestion  | liver         | Some positive data exist, but the | Rat | LOAEL     | 3 months  |
|                    |            |               | data are not sufficient for       |     | 1,200     |           |
|                    |            |               | classification                    |     | mg/kg/day |           |
| Methylene Chloride | Ingestion  | blood         | Not classified                    | Rat | NOAEL 249 | 2 years   |
|                    |            |               |                                   |     | mg/kg/day |           |
| Methylene Chloride | Ingestion  | kidney and/or | Not classified                    | Rat | NOAEL     | 3 months  |
|                    |            | bladder       |                                   |     | 1,469     |           |
|                    |            |               |                                   |     | mg/kg/day |           |
| Methylene Chloride | Ingestion  | eyes          | Not classified                    | Rat | NOAEL 249 | 104 weeks |
|                    |            |               |                                   |     | mg/kg/day |           |

### **Aspiration Hazard**

| Name        | Value             |
|-------------|-------------------|
| Pentane     | Aspiration hazard |
| Cyclohexane | Aspiration hazard |
| 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. 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)

## **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

 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):

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u>       |
|-------------------|------------------|----------------------|
| Cyclohexane       | 110-82-7         | Trade Secret 10 - 24 |

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

| Ingredient (Category if applicable) | <b>C.A.S.</b> No | <b>Regulation</b>                     | <u>Status</u> |
|-------------------------------------|------------------|---------------------------------------|---------------|
| Methylene Chloride                  | 75-09-2          | Toxic Substances Control Act (TSCA) 6 | Applicable    |
|                                     |                  | Banned or Restricted Use Chemicals    |               |

**Additional TSCA Information** 

### **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. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

### **15.4. International Regulations**

Contact 3M for more information.

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

## **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.

| Document Group: | 23-3000-9 | Version Number:  | 4.08     |
|-----------------|-----------|------------------|----------|
| Issue Date:     | 09/10/24  | Supercedes Date: | 07/28/22 |

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