



## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 22-4028-1 | <b>Version Number:</b>  | 17.00    |
| <b>Issue Date:</b>     | 02/05/25  | <b>Supersedes Date:</b> | 08/03/22 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Hi-Strength Spray Adhesive 90

#### Product Identification Numbers

LN-A100-1898-9, 70-0050-2398-4, 70-0050-2407-3, 70-0069-6895-5, 70-0069-6896-3, 70-0069-7044-9, 70-0069-7048-0, 70-0091-1682-6  
7010332272, 7100127340, 7100127510, 7100133363, 7100212366, 7100131758

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

##### Recommended use

Adhesive, Hi-Strength Aerosol Adhesive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | Construction and Home Improvement Markets |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA   |
| <b>Telephone:</b>    | 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

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Flammable Aerosol: Category 1.  
Gas Under Pressure: Liquefied gas.  
Serious Eye Damage/Irritation: Category 2B.  
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 | Gas cylinder | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes eye irritation.

May cause respiratory 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****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/sparks/open flames/hot surfaces. - No smoking.

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

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

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 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).

**Storage:**

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

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

Store locked up.

**Disposal:**

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

**Notes to Physician:**

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

**Supplemental Information:**

Intentional concentration and inhalation may be harmful or fatal.

8% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| <b>Ingredient</b>                                    | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|--|-------------------|------------------------|
| DIMETHYL ETHER                                       | 115-10-6          | 35 - 45 Trade Secret * |
| METHYL ACETATE                                       | 79-20-9           | 25 - 35 Trade Secret * |
| CYCLOHEXANE  | 110-82-7          | 7 - 13 Trade Secret *  |
| DIPENTENE-STYRENE COPOLYMER                          | 64536-06-7        | 5 - 10 Trade Secret *  |
| Nonvolatile Components (NJTS Reg. No. 0449960-6448P) | Trade Secret*     | 1 - 10 Trade Secret *  |
| 1,1-DIFLUOROETHANE                                   | 75-37-6           | 1 - 5 Trade Secret *   |
| PENTANE  | 109-66-0          | 1 - 5 Trade Secret *   |
| Toluene  | 108-88-3          | < 1 Trade Secret *     |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. Get medical attention.

**Skin Contact:**

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

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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****Substance**

Carbon monoxide

Carbon dioxide

Irritant Vapors or Gases

**Condition**

During Combustion

During Combustion

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. 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**

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. 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**

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.

| <b>Ingredient</b>  | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>        | <b>Additional Comments</b>                  |
|--------------------|-------------------|---------------|--------------------------|---|
| 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) |   |
| 1,1-DIFLUOROETHANE | 75-37-6           | AIHA          | TWA:2700 mg/m3(1000 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: Polyvinyl Alcohol (PVA)

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

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state

Liquid

Color

Colorless

Specific Physical Form:

Aerosol

Odor

Moderate Solvent

Odor threshold

*No Data Available*

pH

*No Data Available*

Melting point

*Not Applicable*

Boiling Point

*Not Applicable*

Flash Point

-42.00 °F [*Test Method*: Tagliabue Closed Cup]

Evaporation rate

1.9 [*Ref Std*: ETHER=1]

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

*No Data Available*

Flammable Limits(UEL)

*No Data Available*

Vapor Pressure

*No Data Available*

Vapor Density

2.97 [*Ref Std*: AIR=1]

Density

0.726 g/ml

Specific Gravity

0.726 [*Ref Std*: 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*

Average particle size

*No Data Available*

Bulk density

*No Data Available*

Hazardous Air Pollutants

0 % weight [*Test Method*: Calculated]

Molecular weight

*No Data Available*

Volatile Organic Compounds

54.8 % weight [*Test Method*: calculated per CARB title 2]

Percent volatile

87.4 % weight

Softening point

*No Data Available*

VOC Less H<sub>2</sub>O & Exempt Solvents

537.4 g/l [*Test Method*: calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

Heat

**10.5. Incompatible materials**

Strong oxidizing agents

Strong acids

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

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

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

**Inhalation:**

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.

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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.

### 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-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-Gas (4 hours)   | Rat     | LC50 164,000 ppm                               |
| 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                             |
| CYCLOHEXANE  | Dermal                     | Rat     | LD50 > 2,000 mg/kg                             |
| CYCLOHEXANE  | Inhalation-Vapor (4 hours) | Rat     | LC50 > 32.9 mg/l                               |
| CYCLOHEXANE  | Ingestion                  | Rat     | LD50 6,200 mg/kg                               |
| PENTANE  | Dermal                     | Rabbit  | LD50 3,000 mg/kg                               |
| PENTANE  | Inhalation-Vapor (4 hours) | Rat     | LC50 > 18 mg/l                                 |
| PENTANE  | Ingestion                  | Rat     | LD50 > 2,000 mg/kg                             |
| 1,1-DIFLUOROETHANE                                   | Inhalation-Gas (4 hours)   | Rat     | LC50 > 437,000 ppm                             |
| Nonvolatile Components (NJTS Reg. No. 0449960-6448P) | Dermal                     | Rabbit  | LD50 > 2,000 mg/kg                             |
| Nonvolatile Components (NJTS Reg. No. 0449960-6448P) | Ingestion                  | Rat     | LD50 > 5,000 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 ACETATE                                       | Rabbit                 | No significant irritation |
| CYCLOHEXANE  | Rabbit                 | Mild irritant             |
| PENTANE  | Rabbit                 | Minimal irritation        |
| Nonvolatile Components (NJTS Reg. No. 0449960-6448P) | Professional judgement | No significant irritation |
| Toluene  | Rabbit                 | Irritant                  |

### Serious Eye Damage/Irritation

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



|                |        |                   |
|----------------|--------|-------------------|
|                |        |                   |
| METHYL ACETATE | Rabbit | Moderate irritant |
| CYCLOHEXANE    | Rabbit | Mild irritant     |
| PENTANE        | Rabbit | Mild irritant     |
| Toluene        | Rabbit | Moderate irritant |

### Skin Sensitization

| Name           | Species    | Value          |
|----------------|------------|----------------|
| METHYL ACETATE | Human      | Not classified |
| PENTANE        | Guinea pig | 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  |
|--------------------|----------|--|
| DIMETHYL ETHER     | In Vitro | Not mutagenic  |
| DIMETHYL ETHER     | In vivo  | Not mutagenic  |
| METHYL ACETATE     | In Vitro | Not mutagenic  |
| METHYL ACETATE     | In vivo  | Not mutagenic  |
| CYCLOHEXANE        | In Vitro | Not mutagenic  |
| CYCLOHEXANE        | In vivo  | 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 |
| 1,1-DIFLUOROETHANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,1-DIFLUOROETHANE | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Toluene            | In Vitro | Not mutagenic  |
| Toluene            | In vivo  | Not mutagenic  |

### Carcinogenicity

| Name               | Route      | Species | Value  |
|--------------------|------------|---------|--|
| DIMETHYL ETHER     | Inhalation | Rat     | Not carcinogenic   |
| 1,1-DIFLUOROETHANE | Inhalation | Rat     | 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    |
|----------------|------------|--|---------|------------------|----------------------|
| DIMETHYL ETHER | Inhalation | Not classified for development         | Rat     | NOAEL 40,000 ppm | during organogenesis |
| CYCLOHEXANE    | Inhalation | Not classified for female reproduction | Rat     | NOAEL 24 mg/l    | 2 generation         |
| CYCLOHEXANE    | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 24 mg/l    | 2 generation         |
| CYCLOHEXANE    | Inhalation | Not classified for development         | Rat     | NOAEL 6.9        | 2 generation         |

|                    |            |  |       | mg/l                  |                        |
|--------------------|------------|--|-------|-----------------------|------------------------|
| PENTANE            | Ingestion  | Not classified for development         | Rat   | NOAEL 1,000 mg/kg/day | during organogenesis   |
| PENTANE            | Inhalation | Not classified for development         | Rat   | NOAEL 30 mg/l         | during organogenesis   |
| 1,1-DIFLUOROETHANE | Inhalation | Not classified for development         | Rat   | NOAEL 50,000 ppm      | during organogenesis   |
| Toluene            | Inhalation | Not classified for female reproduction | Human | NOAEL Not available   | occupational exposure  |
| Toluene            | Inhalation | Not classified for male reproduction   | Rat   | NOAEL 2.3 mg/l        | 1 generation           |
| 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      |
|--------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| DIMETHYL ETHER     | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Rat                     | LOAEL 10,000 ppm    | 30 minutes             |
| DIMETHYL ETHER     | Inhalation | cardiac sensitization             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL 100,000 ppm   | 5 minutes              |
| 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 |                        |
| CYCLOHEXANE        | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal        | NOAEL Not available |                        |
| CYCLOHEXANE        | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal        | NOAEL Not available |                        |
| CYCLOHEXANE        | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |
| PENTANE            | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Multiple animal species | NOAEL Not available | not available          |
| PENTANE            | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Not available           | NOAEL Not available | not available          |
| PENTANE            | Inhalation | cardiac sensitization             | Not classified   | Dog                     | NOAEL Not available | not available          |
| PENTANE            | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available | not available          |
| 1,1-DIFLUOROETHANE | Inhalation | cardiac sensitization             | Causes damage to organs  | Human and animal        | NOAEL Not available | poisoning and/or abuse |
| 1,1-DIFLUOROETHANE | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and               | NOAEL 100,000 ppm   |                        |

|                    |            |                                   |  |               |                     |                        |
|--------------------|------------|-----------------------------------|--|---------------|---------------------|------------------------|
|                    |            |                                   |  | animal        |                     |                        |
| 1,1-DIFLUOROETHANE | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available          |
| Toluene            | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human         | NOAEL Not available |                        |
| Toluene            | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human         | NOAEL Not available |                        |
| Toluene            | Inhalation | immune system                     | Not classified   | Mouse         | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene            | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human         | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name               | Route      | Target Organ(s)  | Value  | Species | Test Result           | Exposure Duration      |
|--------------------|------------|--|--|---------|-----------------------|------------------------|
| DIMETHYL ETHER     | Inhalation | hematopoietic system   | Not classified   | Rat     | NOAEL 25,000 ppm      | 2 years                |
| DIMETHYL ETHER     | Inhalation | liver  | Not classified   | Rat     | NOAEL 20,000 ppm      | 30 weeks               |
| 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   hematopoietic system   liver   immune system   kidney and/or bladder  | Not classified   | Rat     | NOAEL 6.1 mg/l        | 28 days                |
| CYCLOHEXANE        | Inhalation | liver  | Not classified   | Rat     | NOAEL 24 mg/l         | 90 days                |
| CYCLOHEXANE        | Inhalation | auditory system  | Not classified   | Rat     | NOAEL 1.7 mg/l        | 90 days                |
| CYCLOHEXANE        | Inhalation | kidney and/or bladder  | Not classified   | Rabbit  | NOAEL 2.7 mg/l        | 10 weeks               |
| CYCLOHEXANE        | Inhalation | hematopoietic system   | Not classified   | Mouse   | NOAEL 24 mg/l         | 14 weeks               |
| CYCLOHEXANE        | Inhalation | peripheral nervous system  | Not classified   | Rat     | NOAEL 8.6 mg/l        | 30 weeks               |
| PENTANE            | Inhalation | peripheral nervous system  | Not classified   | Human   | NOAEL Not available   | occupational exposure  |
| PENTANE            | Inhalation | heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system | Not classified   | Rat     | NOAEL 20 mg/l         | 13 weeks               |
| PENTANE            | Ingestion  | kidney and/or bladder  | Not classified   | Rat     | NOAEL 2,000 mg/kg/day | 28 days                |
| 1,1-DIFLUOROETHANE | Inhalation | hematopoietic system   kidney and/or bladder   respiratory system  | Not classified   | Rat     | NOAEL 25,000 ppm      | 2 years                |
| Toluene            | Inhalation | auditory system   nervous system   eyes   olfactory system   | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available   | poisoning and/or abuse |
| Toluene            | Inhalation | respiratory system   | Some positive data exist, but the  | Rat     | LOAEL 2.3             | 15 months              |

|         |            |  |  |                         |                       |                       |
|---------|------------|--|--|-------------------------|-----------------------|-----------------------|
|         |            |  | data are not sufficient for classification                                   |                         | mg/l                  |                       |
| Toluene | Inhalation | heart   liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 11.3 mg/l       | 15 weeks              |
| Toluene | Inhalation | endocrine system                       | Not classified   | Rat                     | NOAEL 1.1 mg/l        | 4 weeks               |
| Toluene | Inhalation | immune system                          | Not classified   | Mouse                   | NOAEL Not available   | 20 days               |
| Toluene | Inhalation | bone, teeth, nails, and/or hair        | Not classified   | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks               |
| Toluene | Inhalation | hematopoietic system   vascular system | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract                 | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks              |
| Toluene | Ingestion  | nervous system                         | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks              |
| Toluene | Ingestion  | heart                                  | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks              |
| Toluene | Ingestion  | liver   kidney and/or bladder          | Not classified   | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks              |
| Toluene | Ingestion  | hematopoietic system                   | Not classified   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days               |
| Toluene | Ingestion  | endocrine system                       | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days               |
| Toluene | Ingestion  | immune system                          | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks               |

### Aspiration Hazard

| Name        | Value             |
|-------------|-------------------|
| CYCLOHEXANE | Aspiration hazard |
| PENTANE     | 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. 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)

Gas under pressure

##### 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):**

#### Ingredient

CYCLOHEXANE

#### C.A.S. No

110-82-7

#### % by Wt

Trade Secret 7 - 13

#### 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

**Aerosol Storage Code: 3**

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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 22-4028-1 | <b>Version Number:</b>  | 17.00    |
| <b>Issue Date:</b>     | 02/05/25  | <b>Supersedes Date:</b> | 08/03/22 |

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