



## Safety Data Sheet

Copyright,2021, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 16-3472-4 | <b>Version Number:</b>  | 44.00    |
| <b>Issue Date:</b>     | 10/04/21  | <b>Supersedes Date:</b> | 09/23/21 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol)

#### Product Identification Numbers

| ID Number      | UPC               | ID Number      | UPC               |
|----------------|-------------------|----------------|-------------------|
| 62-4977-2924-4 | 000-21200-96228-8 | 62-4977-2928-5 | 500-21200-96467-6 |
| 62-4977-4730-3 |                   | 62-4977-4922-6 |                   |
| 62-4977-4923-4 |                   | 62-4977-4925-9 | 00-21200-21210-9  |
| 62-4977-4929-1 |                   | 62-4977-4930-9 | 00-21200-21210-9  |
| 62-4977-4935-8 |                   |                |                   |

7000046597, 7000000931, 7000121447, 7010366502, 7010366503, 7010330395

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

##### Recommended use

Adhesive aerosol, General Purpose Aerosol adhesive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <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

#### 2.1. Hazard classification

Flammable Aerosol: Category 1.

Gas Under Pressure: Liquefied gas.

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 | Gas cylinder | Exclamation mark | Health Hazard |

### Pictograms



### Hazard Statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

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

#### 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 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 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 50C/122F.

Keep container tightly closed.

Store locked up in a well-ventilated place.

**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.

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

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

| Ingredient  | C.A.S. No.    | % by Wt                |
|---|---------------|------------------------|
| Acetone   | 67-64-1       | 15 - 30 Trade Secret * |
| Propane   | 74-98-6       | 15 - 30 Trade Secret * |
| Non-Volatile Components - NJTS Registry No.<br>04499600-6433P | Trade Secret* | 10 - 30 Trade Secret * |
| 2-Methylpentane   | 107-83-5      | 10 - 20 Trade Secret * |
| Cyclohexane   | 110-82-7      | 10 - 20 Trade Secret * |
| Terpene Phenolic  | Trade Secret* | < 10 Trade Secret *    |
| Ethyl Alcohol   | 64-17-5       | < 5 Trade Secret *     |
| Pentane   | 109-66-0      | < 5 Trade Secret *     |
| Petroleum Resins  | 64742-16-1    | < 5 Trade Secret *     |
| Non-Volatile Resin  | Trade Secret* | < 5 Trade Secret *     |
| Hexane  | 110-54-3      | < 0.5 Trade Secret *   |
| Toluene   | 108-88-3      | < 0.3 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:**

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

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

Aldehydes  
Hydrocarbons  
Carbon monoxide  
Carbon dioxide  
Irritant Vapors or Gases

#### Condition

During Combustion  
During Combustion  
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. 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

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

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 50C/122F. 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                         |
|-----------------|------------|--------|------------------------------|---|
| 2-Methylpentane | 107-83-5   | ACGIH  | TWA:500 ppm;STEL:1000 ppm    |   |
| Toluene         | 108-88-3   | ACGIH  | TWA:20 ppm                   | A4: Not class. as human carcin, Ototoxicant |
| Toluene         | 108-88-3   | OSHA   | TWA:200 ppm;CEIL:300 ppm     |   |
| Pentane         | 109-66-0   | ACGIH  | TWA:1000 ppm                 |   |
| Pentane         | 109-66-0   | OSHA   | TWA:2950 mg/m3(1000 ppm)     |   |
| Hexane          | 110-54-3   | ACGIH  | TWA:50 ppm                   | Danger of cutaneous absorption              |
| Hexane          | 110-54-3   | OSHA   | TWA:1800 mg/m3(500 ppm)      |   |
| Cyclohexane     | 110-82-7   | ACGIH  | TWA:100 ppm                  |   |
| Cyclohexane     | 110-82-7   | OSHA   | TWA:1050 mg/m3(300 ppm)      |   |
| Ethyl Alcohol   | 64-17-5    | ACGIH  | STEL:1000 ppm                | A3: Confirmed animal carcin.                |
| Ethyl Alcohol   | 64-17-5    | OSHA   | TWA:1900 mg/m3(1000 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)     |   |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

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

Half facepiece or full facepiece supplied-air respirator

Organic vapor respirators 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 aerosol

**Color**

Colorless

**Specific Physical Form:**

Aerosol

**Odor**

Sweet Odor, Fruity Odor

**Odor threshold**

*No Data Available*

**pH**

*No Data Available*

**Melting point**

*No Data Available*

**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**

[*Details*:Compressed gas]*Not Applicable*

**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*

**Hazardous Air Pollutants**

<=0.5 % weight [*Test Method*:Calculated]

**Volatile Organic Compounds**

<=570 g/l [*Details*:EU VOC content]

**Percent volatile**

<=75 % weight [*Details*:all volatiles]

**VOC Less H2O & Exempt Solvents**

<=56 % [*Test Method*:calculated per CARB title 2]

**Solids Content**

>=22.4 %

**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

**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.

**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.

**Additional Information:**

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

**Toxicological Data**

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

**Acute Toxicity**

| 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 |
| Propane  | Inhalation-Gas (4 hours)   | Rat     | LC50 > 200,000 ppm                             |
| Acetone  | Dermal                     | Rabbit  | LD50 > 15,688 mg/kg                            |
| Acetone  | Inhalation-Vapor (4 hours) | Rat     | LC50 76 mg/l                                   |
| Acetone  | Ingestion                  | Rat     | LD50 5,800 mg/kg                               |
| 2-Methylpentane  | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| 2-Methylpentane  | Inhalation-Vapor           |         | LC50 estimated to be > 50 mg/l                 |
| 2-Methylpentane  | Ingestion                  |         | LD50 estimated to be > 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                               |
| Non-Volatile Components - NJTS Registry No. 04499600-6433P | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg             |
| Non-Volatile Components - NJTS Registry No. 04499600-6433P | Ingestion                  |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Petroleum Resins   | Dermal                     | Rabbit  | LD50 > 2,000 mg/kg                             |
| Petroleum Resins   | Ingestion                  | Rat     | LD50 > 5,000 mg/kg                             |
| Ethyl Alcohol  | Dermal                     | Rabbit  | LD50 > 15,800 mg/kg                            |
| Ethyl Alcohol  | Inhalation-Vapor (4 hours) | Rat     | LC50 124.7 mg/l                                |
| Ethyl Alcohol  | Ingestion                  | Rat     | LD50 17,800 mg/kg                              |
| 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                             |



|                    |                            |        |                     |
|--------------------|----------------------------|--------|---------------------|
| Non-Volatile Resin | Ingestion                  | Mouse  | LD50 > 2,000 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    |
| Hexane             | Dermal                     | Rabbit | LD50 > 2,000 mg/kg  |
| Hexane             | Inhalation-Vapor (4 hours) | Rat    | LC50 170 mg/l       |
| Hexane             | Ingestion                  | Rat    | LD50 > 28,700 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| Propane  | Rabbit                 | Minimal irritation        |
| Acetone  | Mouse                  | Minimal irritation        |
| 2-Methylpentane  | Professional judgement | Mild irritant             |
| Cyclohexane  | Rabbit                 | Mild irritant             |
| Non-Volatile Components - NJTS Registry No. 04499600-6433P | Professional judgement | Minimal irritation        |
| Petroleum Resins   | Human                  | Minimal irritation        |
| Ethyl Alcohol  | Rabbit                 | No significant irritation |
| Pentane  | Rabbit                 | Minimal irritation        |
| Toluene  | Rabbit                 | Irritant                  |
| Hexane   | Human and animal       | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name             | Species                | Value             |
|------------------|------------------------|-------------------|
| Propane          | Rabbit                 | Mild irritant     |
| Acetone          | Rabbit                 | Severe irritant   |
| 2-Methylpentane  | Professional judgement | Moderate irritant |
| Cyclohexane      | Rabbit                 | Mild irritant     |
| Petroleum Resins | Human                  | Mild irritant     |
| Ethyl Alcohol    | Rabbit                 | Severe irritant   |
| Pentane          | Rabbit                 | Mild irritant     |
| Toluene          | Rabbit                 | Moderate irritant |
| Hexane           | Rabbit                 | Mild irritant     |

**Skin Sensitization**

| Name          | Species    | Value          |
|---------------|------------|----------------|
| Ethyl Alcohol | Human      | Not classified |
| Pentane       | Guinea pig | Not classified |
| Toluene       | Guinea pig | Not classified |
| Hexane        | Human      | Not classified |

**Photosensitization**

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

|                  |       |                 |
|------------------|-------|-----------------|
| Petroleum Resins | Human | Not sensitizing |
|------------------|-------|-----------------|

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name             | Route    | Value  |
|------------------|----------|--|
| Propane          | In Vitro | Not mutagenic  |
| Acetone          | In vivo  | Not mutagenic  |
| Acetone          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Cyclohexane      | In Vitro | Not mutagenic  |
| Cyclohexane      | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Petroleum Resins | In vivo  | Not mutagenic  |
| Petroleum Resins | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol    | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol    | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Pentane          | In vivo  | Not mutagenic  |
| Pentane          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Toluene          | In Vitro | Not mutagenic  |
| Toluene          | In vivo  | Not mutagenic  |
| Hexane           | In Vitro | Not mutagenic  |
| Hexane           | In vivo  | Not mutagenic  |

### Carcinogenicity

| Name             | Route         | Species                 | Value  |
|------------------|---------------|-------------------------|--|
| Acetone          | Not Specified | Multiple animal species | Not carcinogenic   |
| Petroleum Resins | Not Specified | Human and animal        | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol    | Ingestion     | Multiple animal species | 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 |
| Hexane           | Dermal        | Mouse                   | Not carcinogenic   |
| Hexane           | 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    |
|-------------|------------|--|---------|-----------------------|----------------------|
| Acetone     | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 1,700 mg/kg/day | 13 weeks             |
| Acetone     | Inhalation | Not classified for development         | Rat     | NOAEL 5.2 mg/l        | 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              | 2 generation         |

|               |            |  |       | mg/l                  |                                |
|---------------|------------|--|-------|-----------------------|--------------------------------|
| Cyclohexane   | Inhalation | Not classified for development         | Rat   | NOAEL 6.9 mg/l        | 2 generation                   |
| Ethyl Alcohol | Inhalation | Not classified for development         | Rat   | NOAEL 38 mg/l         | during gestation               |
| Ethyl Alcohol | Ingestion  | Not classified for development         | Rat   | NOAEL 5,200 mg/kg/day | prematuring & during gestation |
| 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           |
| 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         |
| Hexane        | Ingestion  | Not classified for development         | Mouse | NOAEL 2,200 mg/kg/day | during organogenesis           |
| Hexane        | Inhalation | Not classified for development         | Rat   | NOAEL 0.7 mg/l        | during gestation               |
| Hexane        | Ingestion  | Toxic to male reproduction             | Rat   | NOAEL 1,140 mg/kg/day | 90 days                        |
| Hexane        | Inhalation | Toxic to male reproduction             | Rat   | LOAEL 3.52 mg/l       | 28 days                        |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name            | Route      | Target Organ(s)                   | Value  | Species                | Test Result         | Exposure Duration      |
|-----------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Propane         | Inhalation | cardiac sensitization             | Causes damage to organs  | Human                  | NOAEL Not available |                        |
| Propane         | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                        |
| Propane         | Inhalation | respiratory irritation            | Not classified   | Human                  | NOAEL Not available |                        |
| Acetone         | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available |                        |
| Acetone         | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |                        |
| Acetone         | Inhalation | immune system                     | Not classified   | Human                  | NOAEL 1.19 mg/l     | 6 hours                |
| Acetone         | Inhalation | liver                             | Not classified   | Guinea pig             | NOAEL Not available |                        |
| Acetone         | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available | poisoning and/or abuse |
| 2-Methylpentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 2-Methylpentane | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| 2-Methylpentane | Inhalation | cardiac sensitization             | Not classified   | Dog                    | NOAEL Not available |                        |
| 2-Methylpentane | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |

|               |            |                                   |  |                         |                     |                        |
|---------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
|               |            |                                   |  | nt                      |                     |                        |
| 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 |                        |
| Ethyl Alcohol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available          |
| Ethyl Alcohol | Inhalation | central nervous system depression | Not classified   | Human and animal        | NOAEL not available |                        |
| Ethyl Alcohol | Ingestion  | central nervous system depression | Not classified   | Multiple animal species | NOAEL not available |                        |
| Ethyl Alcohol | Ingestion  | kidney and/or bladder             | Not classified   | Dog                     | NOAEL 3,000 mg/kg   |                        |
| 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          |
| 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 |
| Hexane        | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available | not available          |
| Hexane        | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Rabbit                  | NOAEL Not available | 8 hours                |
| Hexane        | Inhalation | respiratory system                | Not classified   | Rat                     | NOAEL 24.6 mg/l     | 8 hours                |

### Specific Target Organ Toxicity - repeated exposure

| Name    | Route      | Target Organ(s)       | Value          | Species    | Test Result         | Exposure Duration |
|---------|------------|-----------------------|----------------|------------|---------------------|-------------------|
| Acetone | Dermal     | eyes                  | Not classified | Guinea pig | NOAEL Not available | 3 weeks           |
| Acetone | Inhalation | hematopoietic system  | Not classified | Human      | NOAEL 3 mg/l        | 6 weeks           |
| Acetone | Inhalation | immune system         | Not classified | Human      | NOAEL 1.19 mg/l     | 6 days            |
| Acetone | Inhalation | kidney and/or bladder | Not classified | Guinea pig | NOAEL 119 mg/l      | not available     |
| Acetone | Inhalation | heart   liver         | Not classified | Rat        | NOAEL 45 mg/l       | 8 weeks           |
| Acetone | Ingestion  | kidney and/or bladder | Not classified | Rat        | NOAEL 900 mg/kg/day | 13 weeks          |
| Acetone | Ingestion  | heart                 | Not classified | Rat        | NOAEL               | 13 weeks          |

|                  |            |  |  |        |                        |                       |
|------------------|------------|--|--|--------|------------------------|-----------------------|
|                  |            |  |  |        | 2,500 mg/kg/day        |                       |
| Acetone          | Ingestion  | hematopoietic system   | Not classified   | Rat    | NOAEL 200 mg/kg/day    | 13 weeks              |
| Acetone          | Ingestion  | liver  | Not classified   | Mouse  | NOAEL 3,896 mg/kg/day  | 14 days               |
| Acetone          | Ingestion  | eyes   | Not classified   | Rat    | NOAEL 3,400 mg/kg/day  | 13 weeks              |
| Acetone          | Ingestion  | respiratory system   | Not classified   | Rat    | NOAEL 2,500 mg/kg/day  | 13 weeks              |
| Acetone          | Ingestion  | muscles  | Not classified   | Rat    | NOAEL 2,500 mg/kg      | 13 weeks              |
| Acetone          | Ingestion  | skin   bone, teeth, nails, and/or hair   | Not classified   | Mouse  | NOAEL 11,298 mg/kg/day | 13 weeks              |
| 2-Methylpentane  | Inhalation | peripheral nervous system  | Not classified   | Rat    | NOAEL 5.3 mg/l         | 14 weeks              |
| 2-Methylpentane  | Ingestion  | peripheral nervous system  | Not classified   | Rat    | NOAEL Not available    | 8 weeks               |
| 2-Methylpentane  | Ingestion  | kidney and/or bladder  | Not classified   | Rat    | LOAEL 2,000 mg/kg      | 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              |
| Petroleum Resins | Inhalation | respiratory system   | Not classified   | Human  | NOAEL Not available    | occupational exposure |
| Ethyl Alcohol    | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Rabbit | LOAEL 124 mg/l         | 365 days              |
| Ethyl Alcohol    | Inhalation | hematopoietic system   immune system   | Not classified   | Rat    | NOAEL 25 mg/l          | 14 days               |
| Ethyl Alcohol    | Ingestion  | liver  | Some positive data exist, but the data are not sufficient for classification | Rat    | LOAEL 8,000 mg/kg/day  | 4 months              |
| Ethyl Alcohol    | Ingestion  | kidney and/or bladder  | Not classified   | Dog    | NOAEL 3,000 mg/kg/day  | 7 days                |
| 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               |
| Toluene          | Inhalation | auditory system  | Causes damage to organs through  | Human  | NOAEL Not              | poisoning             |

|         |            |   |  |                         |                       |                        |
|---------|------------|---|--|-------------------------|-----------------------|------------------------|
|         |            | eyes   olfactory system   | prolonged or repeated exposure   |                         | available             | and/or abuse           |
| Toluene | Inhalation | nervous system  | May cause damage to organs though prolonged or repeated exposure             | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 2.3 mg/l        | 15 months              |
| Toluene | Inhalation | heart   liver   kidney and/or bladder   | Not classified   | Rat                     | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene | Inhalation | endocrine system  | Not classified   | Rat                     | NOAEL 1.1 mg/l        | 4 weeks                |
| Toluene | Inhalation | immune system   | Not classified   | Mouse                   | NOAEL Not available   | 20 days                |
| Toluene | Inhalation | bone, teeth, nails, and/or hair   | Not classified   | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks                |
| Toluene | Inhalation | hematopoietic system   vascular system  | Not classified   | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene | Inhalation | gastrointestinal tract  | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks               |
| Toluene | Ingestion  | nervous system  | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks               |
| Toluene | Ingestion  | heart   | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks               |
| 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                |
| Hexane  | Inhalation | peripheral nervous system   | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available   | occupational exposure  |
| Hexane  | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Mouse                   | LOAEL 1.76 mg/l       | 13 weeks               |
| Hexane  | Inhalation | liver   | Not classified   | Rat                     | NOAEL Not available   | 6 months               |
| Hexane  | Inhalation | kidney and/or bladder   | Not classified   | Rat                     | LOAEL 1.76 mg/l       | 6 months               |
| Hexane  | Inhalation | hematopoietic system  | Not classified   | Mouse                   | NOAEL 35.2 mg/l       | 13 weeks               |
| Hexane  | Inhalation | auditory system   immune system   eyes  | Not classified   | Human                   | NOAEL Not available   | occupational exposure  |
| Hexane  | Inhalation | heart   skin   endocrine system   | Not classified   | Rat                     | NOAEL 1.76 mg/l       | 6 months               |
| Hexane  | Ingestion  | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1,140 mg/kg/day | 90 days                |
| Hexane  | Ingestion  | endocrine system   hematopoietic system   liver   immune system   kidney and/or bladder | Not classified   | Rat                     | NOAEL Not available   | 13 weeks               |

**Aspiration Hazard**

| Name            | Value             |
|-----------------|-------------------|
| 2-Methylpentane | Aspiration hazard |
| Cyclohexane     | Aspiration hazard |

|         |                   |
|---------|-------------------|
| Pentane | Aspiration hazard |
| Toluene | Aspiration hazard |
| Hexane  | 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 waste product in a permitted industrial waste facility. Facility must be capable of handling aerosol cans.

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 10 - 20

## 15.2. State Regulations

Contact 3M for more information.

### California Proposition 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Listing</u> |
|-------------------|-------------------|----------------|
|-------------------|-------------------|----------------|

|          |          |                         |
|----------|----------|-------------------------|
| Toluene  | 108-88-3 | Developmental Toxin     |
| n-Hexane | 110-54-3 | Male reproductive toxin |

## 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.

### HMIS Hazard Classification

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

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

**Document Group:** 16-3472-4

**Version Number:** 44.00

**Issue Date:** 10/04/21

**Supersedes Date:** 09/23/21

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available



directly from 3M.

**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**