



## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Foam Fast 74 Spray Adhesive Orange

#### Product Identification Numbers

62-4935-4730-1, 62-4935-4920-8, 62-4935-4921-6, 62-4935-4935-6, 62-4935-4936-4, 62-4935-4950-5, 62-4935-4955-4, 62-4935-4970-3, 62-4935-4975-2

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

##### Recommended use

Adhesive, Aerosol foam 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 1.  
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 | Corrosion | Exclamation mark | Health Hazard |

#### Pictograms



#### Hazard Statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes serious eye damage.

May cause drowsiness or dizziness.

May displace oxygen and cause rapid suffocation.

Causes damage to organs:

cardiovascular system |

#### Precautionary Statements

##### Prevention:

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 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.

Immediately call a POISON CENTER or doctor/physician.

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 misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

## SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| Acetone  | 67-64-1       | 15 - 25 Trade Secret * |
| Dimethyl ether   | 115-10-6      | 15 - 25 Trade Secret * |
| Non-hazardous components (N.J.T.S. Reg No. 04499600-6460P) | Trade Secret* | 15 - 25 Trade Secret * |
| Isobutane  | 75-28-5       | 10 - 20 Trade Secret * |
| Pentane  | 109-66-0      | 7 - 13 Trade Secret *  |
| Methyl acetate   | 79-20-9       | 3 - 7 Trade Secret *   |
| Cyclohexane  | 110-82-7      | 1 - 5 Trade Secret *   |
| Petroleum naphtha  | 64742-48-9    | 1 - 3 Trade Secret *   |
| Cyclopentane   | 287-92-3      | < 0.5 Trade Secret *   |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. Get medical attention.

#### Skin Contact:

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

#### Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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

See Section 11.1. Information on toxicological effects.

### 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

Hydrocarbons  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

#### Condition

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. 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. An appropriate aqueous film forming foam (AFFF) is recommended. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial or professional use only. 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.)

**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            |
|----------------|------------|--------|--------------------------|--------------------------------|
| 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) |                                |
| Cyclopentane   | 287-92-3   | ACGIH  | TWA:600 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)     |  |
| Isobutane      | 75-28-5 | ACGIH | STEL:1000 ppm                |  |
| Natural gas    | 75-28-5 | ACGIH | Limit value not established: |  |
| 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:

Full Face Shield

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.

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

Nitrile Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Nitrile

#### 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 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

General Physical Form:

Liquid

|  |  |
|--|--|
| <b>Specific Physical Form:</b>                 | Aerosol  |
| <b>Odor, Color, Grade:</b>                     | orange, sweet fruity odor  |
| <b>Odor threshold</b>                          | <i>No Data Available</i>   |
| <b>pH</b>                                      | <i>No Data Available</i>   |
| <b>Melting point</b>                           | <i>No Data Available</i>   |
| <b>Boiling Point</b>                           | [ <i>Details:Compressed gas</i> ] <i>Not Applicable</i>  |
| <b>Flash Point</b>                             | -50 °F [ <i>Test Method:Tagliabue Closed Cup</i> ]   |
| <b>Evaporation rate</b>                        | 1.9 [ <i>Ref Std:ETHER=1</i> ]   |
| <b>Flammability (solid, gas)</b>               | Not Applicable   |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>   |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>   |
| <b>Vapor Pressure</b>                          | [ <i>Details:Compressed gas</i> ] <i>Not Applicable</i>  |
| <b>Vapor Density</b>                           | 2.97 [ <i>Ref Std:AIR=1</i> ]  |
| <b>Density</b>                                 | 0.718 g/ml   |
| <b>Specific Gravity</b>                        | 0.718 [ <i>Ref Std:WATER=1</i> ]   |
| <b>Solubility in Water</b>                     | Nil  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>   |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>   |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>   |
| <b>Viscosity</b>                               | <i>Not Applicable</i>  |
| <b>Hazardous Air Pollutants</b>                | <=0.1 % weight [ <i>Test Method:Calculated</i> ]   |
| <b>Molecular weight</b>                        | <i>No Data Available</i>   |
| <b>Volatile Organic Compounds</b>              | <=395 g/l [ <i>Test Method:calculated SCAQMD rule 443.1</i> ]<br>[ <i>Details:Material VOC</i> ] |
| <b>Volatile Organic Compounds</b>              | <=55 % [ <i>Test Method:calculated per CARB title 2</i> ]  |

## 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

**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:

Intentional concentration and inhalation may be harmful or fatal.

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:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of 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.

#### 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 |
| Isobutane       | Inhalation-            | Rat     | LC50 276,000 ppm                               |

|  |                            |        |                                    |
|--|----------------------------|--------|------------------------------------|
|  | Gas (4 hours)              |        |                                    |
| 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                   |
| Dimethyl ether   | Inhalation-Gas (4 hours)   | Rat    | LC50 164,000 ppm                   |
| 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-hazardous components (N.J.T.S. Reg No. 04499600-6460P) | Dermal                     |        | LD50 estimated to be > 5,000 mg/kg |
| Non-hazardous components (N.J.T.S. Reg No. 04499600-6460P) | Ingestion                  | Rat    | LD50 > 34,000 mg/kg                |
| Methyl acetate   | Dermal                     | Rat    | LD50 > 2,000 mg/kg                 |
| Methyl acetate   | Inhalation-Vapor (4 hours) | Rat    | LC50 > 49 mg/l                     |
| Methyl acetate   | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                 |
| 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                   |
| Petroleum naphtha  | Inhalation-Vapor           |        | LC50 estimated to be 20 - 50 mg/l  |
| Petroleum naphtha  | Dermal                     | Rabbit | LD50 > 3,000 mg/kg                 |
| Petroleum naphtha  | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                 |
| Cyclopentane   | Dermal                     |        | LD50 estimated to be > 5,000 mg/kg |
| Cyclopentane   | Inhalation-Vapor (4 hours) | Rat    | LC50 > 25.3 mg/l                   |
| Cyclopentane   | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                 |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name              | Species                | Value                     |
|-------------------|------------------------|---------------------------|
| Overall product   | Rabbit                 | Mild irritant             |
| Isobutane         | Professional judgement | No significant irritation |
| Acetone           | Mouse                  | Minimal irritation        |
| Pentane           | Rabbit                 | Minimal irritation        |
| Methyl acetate    | Rabbit                 | No significant irritation |
| Cyclohexane       | Rabbit                 | Mild irritant             |
| Petroleum naphtha | Rabbit                 | Irritant                  |
| Cyclopentane      | Rabbit                 | Minimal irritation        |

### Serious Eye Damage/Irritation

| Name            | Species                | Value                     |
|-----------------|------------------------|---------------------------|
| Overall product | Rabbit                 | Corrosive                 |
| Isobutane       | Professional judgement | No significant irritation |
| Acetone         | Rabbit                 | Severe irritant           |
| Pentane         | Rabbit                 | Mild irritant             |
| Methyl acetate  | Rabbit                 | Moderate irritant         |



|                   |        |                           |
|-------------------|--------|---------------------------|
| Cyclohexane       | Rabbit | Mild irritant             |
| Petroleum naphtha | Rabbit | No significant irritation |
| Cyclopentane      | Rabbit | Mild irritant             |

### Skin Sensitization

| Name              | Species    | Value          |
|-------------------|------------|----------------|
| Pentane           | Guinea pig | Not classified |
| Methyl acetate    | Human      | Not classified |
| Petroleum naphtha | 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  |
|-------------------|----------|--|
| Isobutane         | In Vitro | Not mutagenic  |
| Acetone           | In vivo  | Not mutagenic  |
| Acetone           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl ether    | In Vitro | Not mutagenic  |
| Dimethyl ether    | In vivo  | Not mutagenic  |
| Pentane           | In vivo  | Not mutagenic  |
| Pentane           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 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 |
| Petroleum naphtha | In vivo  | Not mutagenic  |
| Petroleum naphtha | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name              | Route         | Species                 | Value  |
|-------------------|---------------|-------------------------|--|
| Acetone           | Not Specified | Multiple animal species | Not carcinogenic   |
| Dimethyl ether    | Inhalation    | Rat                     | Not carcinogenic   |
| Petroleum naphtha | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Petroleum naphtha | Inhalation    | Human and animal        | 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 |
| Dimethyl ether | Inhalation | Not classified for development       | Rat     | NOAEL 40,000 ppm      | during organogenesis |
| 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  | s 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 mg/l | 2 generation           |
| Petroleum naphtha | Inhalation | Not classified for development         | Rat | NOAEL 2.4 mg/l | during organogenesis   |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name           | Route      | Target Organ(s)                   | Value  | Species                 | Test Result         | Exposure Duration      |
|----------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| Isobutane      | Inhalation | cardiac sensitization             | Causes damage to organs  | Multiple animal species | NOAEL Not available |                        |
| Isobutane      | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal        | NOAEL Not available |                        |
| Isobutane      | Inhalation | respiratory irritation            | Not classified   | Mouse                   | 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 |
| 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              |
| 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          |
| 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                   | May cause drowsiness or  | Human                   | NOAEL Not           |                        |

|                   |            |                                   |  |                        |                     |         |
|-------------------|------------|-----------------------------------|--|------------------------|---------------------|---------|
|                   |            | system depression                 | dizziness  | and animal             | 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 |         |
| Petroleum naphtha | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human and animal       | NOAEL Not available |         |
| Petroleum naphtha | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |         |
| Petroleum naphtha | Inhalation | nervous system                    | Not classified   | Dog                    | NOAEL 6.5 mg/l      | 4 hours |
| Petroleum naphtha | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |         |
| Cyclopentane      | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | similar compounds      | NOAEL Not available |         |
| Cyclopentane      | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |         |

**Specific Target Organ Toxicity - repeated exposure**

| Name           | Route      | Target Organ(s)                        | Value          | Species    | Test Result            | Exposure Duration |
|----------------|------------|--|----------------|------------|------------------------|-------------------|
| Isobutane      | Inhalation | kidney and/or bladder                  | Not classified | Rat        | NOAEL 4,500 ppm        | 13 weeks          |
| 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 2,500 mg/kg/day  | 13 weeks          |
| 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          |
| 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              |
| Pentane           | Inhalation | peripheral nervous system   | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| Pentane           | Inhalation | heart   skin   endocrine system   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               |
| 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              |
| Petroleum naphtha | Inhalation | nervous system  | Not classified   | Rat                     | LOAEL 4.6 mg/l        | 6 months              |
| Petroleum naphtha | Inhalation | kidney and/or bladder   | Not classified   | Rat                     | LOAEL 1.9 mg/l        | 13 weeks              |
| Petroleum naphtha | Inhalation | respiratory system  | Not classified   | Multiple animal species | NOAEL 0.6 mg/l        | 90 days               |
| Petroleum naphtha | Inhalation | bone, teeth, nails, and/or hair   blood   liver   muscles   | Not classified   | Rat                     | NOAEL 5.6 mg/l        | 12 weeks              |
| Petroleum naphtha | Inhalation | heart   | Not classified   | Multiple animal species | NOAEL 1.3 mg/l        | 90 days               |

**Aspiration Hazard**

| Name              | Value             |
|-------------------|-------------------|
| Pentane           | Aspiration hazard |
| Cyclohexane       | Aspiration hazard |
| Petroleum naphtha | Aspiration hazard |
| Cyclopentane      | 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. As a disposal alternative, incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. 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)

Gas under pressure

**Health Hazards**

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 1 - 5

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this product are in compliance with the chemical notification requirements of TSCA.

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:** 3 **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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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