



## Safety Data Sheet

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

#### 1.1. Product identifier

3M(TM) Spra-ment(TM) Craft and Display Adhesive 6060

#### Product Identification Numbers

62-4938-3730-6, 62-4938-4826-1, 62-4938-4830-3, 70-0051-8329-1

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

**Recommended use**  
Adhesive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Stationery and Office Supplies 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 2.  
Simple Asphyxiant.  
Specific Target Organ Toxicity (single exposure): Category 1.  
Specific Target Organ Toxicity (central nervous system): Category 3.

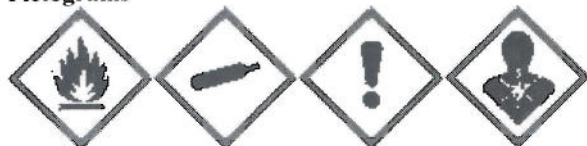
#### 2.2. Label elements

**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.  
Suspected of damaging 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 eye/face protection.  
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: 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.  
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.

**2.3. Hazards not otherwise classified**

May cause frostbite.

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

| Ingredient                | C.A.S. No.    | % by Wt                 |
|---------------------------|---------------|-------------------------|
| NON-HAZARDOUS INGREDIENTS | Trade Secret* | 10 - 35                 |
| ACETONE                   | 67-64-1       | 20 - 30 Trade Secret *  |
| PROPANE                   | 74-98-6       | 15 - 25 Trade Secret *  |
| CYCLOHEXANE               | 110-82-7      | 10 - 20 Trade Secret *  |
| 2-METHYLPENTANE           | 107-83-5      | 3 - 7 Trade Secret *    |
| PENTANE                   | 109-66-0      | 1 - 5 Trade Secret *    |
| 2,2-DIMETHYLBUTANE        | 75-83-2       | 1 - 3 Trade Secret *    |
| 2,3-DIMETHYLBUTANE        | 79-29-8       | 1 - 3 Trade Secret *    |
| 3-METHYLPENTANE           | 96-14-0       | 1 - 3 Trade Secret *    |
| LIMESTONE                 | 1317-65-3     | 0.5 - 1.5               |
| HEXANE                    | 110-54-3      | 0 0.7668 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:**

Thaw frosted skin with lukewarm water. Do not rub affected area. 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**

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**

Aldehydes  
Hydrocarbons  
Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**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**

Avoid release to the environment.

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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. 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 detergent and water. Seal the container. Dispose of collected material as soon as possible.

**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 release to the environment. 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 |                     |
| 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   | Skin Notation                  |
| 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)                                      |                                |
| LIMESTONE          | 1317-65-3 | OSHA  | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 |                                |
| 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:                                 |                                |
| PROPANE            | 74-98-6   | OSHA  | TWA:1800 mg/m3(1000 ppm)                                     |                                |
| 2,2-DIMETHYLBUTANE | 75-83-2   | ACGIH | TWA:500 ppm;STEL:1000 ppm                                    |                                |
| 2,3-DIMETHYLBUTANE | 79-29-8   | ACGIH | TWA:500 ppm;STEL:1000 ppm                                    |                                |
| 3-METHYLPENTANE    | 96-14-0   | ACGIH | TWA:500 ppm;STEL:1000 ppm                                    |                                |

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 OSHA : United States Department of Labor - Occupational Safety and Health Administration  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

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

### 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.

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

#### 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.

#### Thermal hazards

Wear cold insulating gloves/face shield/eye protection.

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| <b>General Physical Form:</b>                  | Gas   |
| <b>Specific Physical Form:</b>                 | Aerosol   |
| <b>Odor, Color, Grade:</b>                     | clear, 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>Not Applicable</i>   |
| <b>Flash Point</b>                             | -42.00 °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>               | Flammable Aerosol: Category 1.  |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>  |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>  |
| <b>Vapor Density</b>                           | 2.97 [ <i>Ref Std: AIR=1</i> ]  |
| <b>Specific Gravity</b>                        | 0.726 [ <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>Not Applicable</i>   |
| <b>Viscosity</b>                               | <i>Not Applicable</i>   |
| <b>Hazardous Air Pollutants</b>                | <= .4 % weight [ <i>Test Method: Calculated</i> ]                       |
| <b>Volatile Organic Compounds</b>              | Approximately 51 % [ <i>Test Method: calculated SCAQMD rule 443.1</i> ] |
| <b>Percent volatile</b>                        | <=75 % weight   |

## 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

None known.

### 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:

Intentional concentration and inhalation may be harmful or 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:

Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction.

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

##### Eye Contact:

Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness.

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.

#### 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           | 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                                |
| 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                                |
| 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              |
| 3-METHYLPENTANE           | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg              |
| 3-METHYLPENTANE           | Inhalation-Vapor               |         | LC50 estimated to be > 50 mg/l                  |
| 3-METHYLPENTANE           | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg              |
| 2,2-DIMETHYLBUTANE        | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg              |
| 2,2-DIMETHYLBUTANE        | Inhalation-Vapor               |         | LC50 estimated to be > 50 mg/l                  |
| 2,2-DIMETHYLBUTANE        | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg              |
| 2,3-DIMETHYLBUTANE        | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg              |
| 2,3-DIMETHYLBUTANE        | Inhalation-Vapor               |         | LC50 estimated to be > 50 mg/l                  |
| 2,3-DIMETHYLBUTANE        | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg              |
| NON-HAZARDOUS INGREDIENTS | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg              |
| NON-HAZARDOUS INGREDIENTS | Ingestion                      | Rat     | LD50 > 34,000 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                              |
| LIMESTONE                 | Dermal                         | Rat     | LD50 > 2,000 mg/kg                              |
| LIMESTONE                 | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 3 mg/l                                     |
| LIMESTONE                 | Ingestion                      | Rat     | LD50 6,450 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 |
| CYCLOHEXANE     | Rabbit       | Mild irritant      |
| 2-METHYLPENTANE | Professional | Mild irritant      |



|                    |                        |                           |
|--------------------|------------------------|---------------------------|
|                    | judgement              |                           |
| 3-METHYLPENTANE    | Professional judgement | Mild irritant             |
| 2,2-DIMETHYLBUTANE | Professional judgement | Mild irritant             |
| 2,3-DIMETHYLBUTANE | Professional judgement | Mild irritant             |
| PENTANE            | Rabbit                 | Minimal irritation        |
| LIMESTONE          | Rabbit                 | No significant irritation |
| HEXANE             | Human and animal       | Mild irritant             |

### Serious Eye Damage/Irritation

| Name               | Species                | Value                     |
|--------------------|------------------------|---------------------------|
| PROPANE            | Rabbit                 | Mild irritant             |
| ACETONE            | Rabbit                 | Severe irritant           |
| CYCLOHEXANE        | Rabbit                 | Mild irritant             |
| 2-METHYLPENTANE    | Professional judgement | Moderate irritant         |
| 3-METHYLPENTANE    | Professional judgement | Moderate irritant         |
| 2,2-DIMETHYLBUTANE | Professional judgement | Moderate irritant         |
| 2,3-DIMETHYLBUTANE | Professional judgement | Moderate irritant         |
| PENTANE            | Rabbit                 | Mild irritant             |
| LIMESTONE          | Rabbit                 | No significant irritation |
| HEXANE             | Rabbit                 | Mild irritant             |

### Skin Sensitization

| Name    | Species    | Value           |
|---------|------------|-----------------|
| PENTANE | Guinea pig | Not sensitizing |
| HEXANE  | 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 |

|         |          |  |
|---------|----------|--|
| PENTANE | In vivo  | Not mutagenic  |
| PENTANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| HEXANE  | In Vitro | Not mutagenic  |
| HEXANE  | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name    | Route         | Species                 | Value  |
|---------|---------------|-------------------------|--|
| ACETONE | Not Specified | Multiple animal species | Not carcinogenic   |
| 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  | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,700 mg/kg/day | 13 weeks                       |
| ACETONE     | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification     | Rat     | NOAEL 5.2 mg/l        | during organogenesis           |
| CYCLOHEXANE | Inhalation | Not toxic to female reproduction   | Rat     | NOAEL 24 mg/l         | 2 generation                   |
| CYCLOHEXANE | Inhalation | Not toxic to male reproduction   | Rat     | NOAEL 24 mg/l         | 2 generation                   |
| CYCLOHEXANE | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification     | Rat     | NOAEL 6.9 mg/l        | 2 generation                   |
| PENTANE     | Ingestion  | Not toxic to development   | Rat     | NOAEL 1,000 mg/kg/day | during organogenesis           |
| PENTANE     | Inhalation | Not toxic to development   | Rat     | NOAEL 30 mg/l         | during organogenesis           |
| LIMESTONE   | Ingestion  | Not toxic to development   | Rat     | NOAEL 625 mg/kg/day   | prematuring & during gestation |
| HEXANE      | Ingestion  | Not toxic to development   | Mouse   | NOAEL 2,200 mg/kg/day | during organogenesis           |
| HEXANE      | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification     | 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            | All data are negative             | Human   | NOAEL Not available |                   |
| ACETONE | Inhalation | central nervous                   | May cause drowsiness or           | Human   | NOAEL Not           |                   |

|                    |            |                                   |  |                        |                     |                        |
|--------------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
|                    |            | system depression                 | dizziness  |                        | 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                     | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL 1.19 mg/l     | 6 hours                |
| ACETONE            | Inhalation | liver                             | Some positive data exist, but the data are not sufficient for classification | Guinea pig             | NOAEL Not available |                        |
| ACETONE            | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                  | NOAEL Not available | poisoning and/or abuse |
| 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 |                        |
| 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             | Some positive data exist, but the data are not sufficient for classification | Dog                    | NOAEL Not available |                        |
| 2-METHYLPENTANE    | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 3-METHYLPENTANE    | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 3-METHYLPENTANE    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| 3-METHYLPENTANE    | Inhalation | cardiac sensitization             | Some positive data exist, but the data are not sufficient for classification | Dog                    | NOAEL Not available |                        |
| 3-METHYLPENTANE    | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 2,2-DIMETHYLBUTANE | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 2,2-DIMETHYLBUTANE | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| 2,2-DIMETHYLBUTANE | Inhalation | cardiac sensitization             | Some positive data exist, but the data are not sufficient for classification | Dog                    | NOAEL Not available |                        |
| 2,2-DIMETHYLBUTANE | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |
| 2,3-DIMETHYLBUTANE | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement | NOAEL Not available |                        |

|                    |            |                                   |  |                         |                     |               |
|--------------------|------------|-----------------------------------|--|-------------------------|---------------------|---------------|
| 2,3-DIMETHYLBUTANE | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                         | NOAEL Not available |               |
| 2,3-DIMETHYLBUTANE | Inhalation | cardiac sensitization             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL Not available |               |
| 2,3-DIMETHYLBUTANE | 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             | Some positive data exist, but the data are not sufficient for classification | Dog                     | NOAEL Not available | not available |
| PENTANE            | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available | not available |
| LIMESTONE          | Inhalation | respiratory system                | All data are negative  | Rat                     | NOAEL 0.812 mg/l    | 90 minutes    |
| 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                | Some positive data exist, but the data are not sufficient for classification | 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                  | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL Not available   | 3 weeks           |
| ACETONE | Inhalation | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL 3 mg/l          | 6 weeks           |
| ACETONE | Inhalation | immune system         | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL 1.19 mg/l       | 6 days            |
| ACETONE | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL 119 mg/l        | not available     |
| ACETONE | Inhalation | heart   liver         | All data are negative  | Rat        | NOAEL 45 mg/l         | 8 weeks           |
| ACETONE | Ingestion  | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat        | NOAEL 900 mg/kg/day   | 13 weeks          |
| ACETONE | Ingestion  | heart                 | Some positive data exist, but the data are not sufficient for classification | Rat        | NOAEL 2,500 mg/kg/day | 13 weeks          |
| ACETONE | Ingestion  | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Rat        | NOAEL 200 mg/kg/day   | 13 weeks          |
| ACETONE | Ingestion  | liver                 | Some positive data exist, but the data are not sufficient for classification | Mouse      | NOAEL 3,896 mg/kg/day | 14 days           |
| ACETONE | Ingestion  | eyes                  | All data are negative  | Rat        | NOAEL 3,400 mg/kg/day | 13 weeks          |
| ACETONE | Ingestion  | respiratory system    | All data are negative  | Rat        | NOAEL                 | 13 weeks          |

|                    |            |   |  |        |                        |                       |
|--------------------|------------|---|--|--------|------------------------|-----------------------|
|                    |            |   |  |        | 2,500 mg/kg/day        |                       |
| ACETONE            | Ingestion  | muscles   | All data are negative  | Rat    | NOAEL 2,500 mg/kg      | 13 weeks              |
| ACETONE            | Ingestion  | skin   bone, teeth, nails, and/or hair  | All data are negative  | Mouse  | NOAEL 11,298 mg/kg/day | 13 weeks              |
| CYCLOHEXANE        | Inhalation | liver   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 24 mg/l          | 90 days               |
| CYCLOHEXANE        | Inhalation | auditory system   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 1.7 mg/l         | 90 days               |
| CYCLOHEXANE        | Inhalation | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL 2.7 mg/l         | 10 weeks              |
| CYCLOHEXANE        | Inhalation | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Mouse  | NOAEL 24 mg/l          | 14 weeks              |
| CYCLOHEXANE        | Inhalation | peripheral nervous system   | All data are negative  | Rat    | NOAEL 8.6 mg/l         | 30 weeks              |
| 2-METHYLPENTANE    | Inhalation | peripheral nervous system   | All data are negative  | Rat    | NOAEL 5.3 mg/l         | 14 weeks              |
| 2-METHYLPENTANE    | Ingestion  | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL Not available    | 8 weeks               |
| 2-METHYLPENTANE    | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat    | LOAEL 2,000 mg/kg      | 28 days               |
| 3-METHYLPENTANE    | Inhalation | peripheral nervous system   | All data are negative  | Rat    | NOAEL 5.3 mg/l         | 14 weeks              |
| 3-METHYLPENTANE    | Ingestion  | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL Not available    | 8 weeks               |
| 3-METHYLPENTANE    | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat    | LOAEL 2,000 mg/kg      | 28 days               |
| 2,2-DIMETHYLBUTANE | Inhalation | peripheral nervous system   | All data are negative  | Rat    | NOAEL 5.3 mg/l         | 14 weeks              |
| 2,2-DIMETHYLBUTANE | Ingestion  | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL Not available    | 8 weeks               |
| 2,2-DIMETHYLBUTANE | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat    | LOAEL 2,000 mg/kg      | 28 days               |
| 2,3-DIMETHYLBUTANE | Inhalation | peripheral nervous system   | All data are negative  | Rat    | NOAEL 5.3 mg/l         | 14 weeks              |
| 2,3-DIMETHYLBUTANE | Ingestion  | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL Not available    | 8 weeks               |
| 2,3-DIMETHYLBUTANE | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat    | LOAEL 2,000 mg/kg      | 28 days               |
| PENTANE            | Inhalation | peripheral nervous system   | Some positive data exist, but the data are not sufficient for classification | 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 | All data are negative  | Rat    | NOAEL 20 mg/l          | 13 weeks              |

|           |            |   |  |       |                       |                       |
|-----------|------------|---|--|-------|-----------------------|-----------------------|
| PENTANE   | Ingestion  | kidney and/or bladder   | All data are negative  | Rat   | NOAEL 2,000 mg/kg/day | 28 days               |
| LIMESTONE | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available   | occupational exposure |
| 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   | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL Not available   | 6 months              |
| HEXANE    | Inhalation | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat   | LOAEL 1.76 mg/l       | 6 months              |
| HEXANE    | Inhalation | hematopoietic system  | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 35.2 mg/l       | 13 weeks              |
| HEXANE    | Inhalation | auditory system   immune system   eyes  | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available   | occupational exposure |
| HEXANE    | Inhalation | heart   skin   endocrine system   | All data are negative  | 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 | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL Not available   | 13 weeks              |

**Aspiration Hazard**

| Name               | Value             |
|--------------------|-------------------|
| CYCLOHEXANE        | Aspiration hazard |
| 2-METHYLPENTANE    | Aspiration hazard |
| 3-METHYLPENTANE    | Aspiration hazard |
| 2,2-DIMETHYLBUTANE | Aspiration hazard |
| 2,3-DIMETHYLBUTANE | Aspiration hazard |
| PENTANE            | 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 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)

## 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.

#### 311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

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

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u>       |
|-------------------|------------------|----------------------|
| CYCLOHEXANE       | 110-82-7         | Trade Secret 10 - 20 |

### 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

Non hazardous according to WHMIS criteria.

This material contains one or more ingredients that may be regulated by the International Traffic in Arms Regulation (ITAR), an export control of US military technology and chemicals. Prior to export of this material or any product containing this material, determine whether a proper license from the Department of State must be obtained. See 22CFR 120-130 for any specific requirements.

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.

**HMIS Hazard Classification**

**Health: 3 Flammability: 4 Physical Hazard: 0 Personal Protection: X - See PPE section.**

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

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