

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

| SECTION 1: Identification | |
|---------------------------|--|
| 1.1. Product identifier | |

3M[™] HoldFast 70 Cylinder Spray Adhesive (Clear)

| Product Identification | Numbers | |
|-------------------------------|----------------|----------------|
| 62-4983-8010-4 | 62-4983-8030-2 | 62-4983-8032-8 |

62-4983-8150-8

62-4983-8300-9

1.2. Recommended use and restrictions on use

Recommended use

HB-0040-2521-7

Adhesive, Industrial use

1.3. Supplier's details

| Company: | 3M Canada Company |
|------------|--|
| Division: | Industrial Adhesives and Tapes Division |
| Address: | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| Telephone: | (800) 364-3577 |
| Website: | www.3M.ca |

1.4. Emergency telephone number

Medical Emergency Telephone: (519) 451-2500, Ext. 2222; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Flammable Liquid: Category 1. Simple Asphyxiant. Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements Signal word Danger

Symbols Flame | Exclamation mark |



Hazard statements Extremely flammable liquid and vapour. May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

Precautionary statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Use explosion-proof electrical/ventilating/lighting equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Call a POISON centre or doctor/physician if you feel unwell. In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

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

Disposal:

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

2.3. Other hazards

None known.

1% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | |
|--------------------------|--------------|---------|--|
| Dimethyl Ether | 115-10-6 | 40 - 50 | |
| Pentane | 109-66-0 | 20 - 30 | |
| Non-Hazardous Components | Trade Secret | 15 - 20 | |
| Acetone | 67-64-1 | 1 - 7 | |
| Cyclopentane | 287-92-3 | 0 - 1.5 | |
| Isopentane | 78-78-4 | 0 - 1.5 | |
| Nitrogen | 7727-37-9 | < 1 | |
| Heptane | 142-82-5 | < 0.8 | |
| Talc | 14807-96-6 | < 0.2 | |

Non-Hazardous Components is a non-hazardous Trade Secret material according to WHMIS criteria.

Dimethyl Ether is a hazardous Trade Secret material according to WHMIS criteria. Refer to Section 15 for further information.

Pentane is a hazardous Trade Secret material according to WHMIS criteria. Refer to Section 15 for further information.

Acetone is a hazardous Trade Secret material according to WHMIS criteria. Refer to Section 15 for further information.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

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

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|------------------|-------------------|
| Aldehydes | During Combustion |
| Hydrocarbons | During Combustion |
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Ketones | 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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause

flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. 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 possible.

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. Use only nonsparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. 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 | |
| Dimethyl Ether | 115-10-6 | AIHA | TWA:1880 mg/m3(1000 ppm) | |
| Dimethyl Ether | 115-10-6 | CMRG | TWA:1000 ppm | |
| Heptane | 142-82-5 | ACGIH | TWA:400 ppm;STEL:500 ppm | |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 | |
| | | | mg/m3 | |
| Talc | 14807-96-6 | CMRG | TWA(as respirable dust):0.5 | |
| | | | mg/m3 | |
| Cyclopentane | 287-92-3 | ACGIH | TWA:600 ppm | |
| Acetone | 67-64-1 | ACGIH | TWA:250 ppm;STEL:500 ppm | |
| Nitrogen | 7727-37-9 | ACGIH | Limit value not established: | simple asphyxiant |
| Isopentane | 78-78-4 | ACGIH | TWA:1000 ppm | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Skin/hand protection

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

Respiratory protection

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

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

| Physical state | Liquid |
|--|--|
| Appearance/Odour | liquid, Clear to pale yellow, solvent odour. |
| Odour threshold | No Data Available |
| рН | No Data Available |
| Melting point/Freezing point | No Data Available |
| Boiling point/Initial boiling point/Boiling range | No Data Available |
| Flash Point | -41.1 °C [Test Method:Closed Cup] |
| Evaporation rate | No Data Available |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | No Data Available |
| Flammable Limits(UEL) | No Data Available |
| Vapour Pressure | No Data Available |
| Vapuor Density | >=1.6 [<i>Ref Std</i> :AIR=1] |
| Density | 0.7 g/ml |
| Relative density | 0.68 - 0.7 [<i>Ref Std</i> :WATER=1] |
| Water solubility | Nil |
| | |

Solubility- non-water Partition coefficient: n-octanol/ water Autoignition temperature Decomposition temperature Viscosity Molecular weight VOC Less H2O & Exempt Solvents Solids Content No Data Available No Data Available No Data Available Not Applicable No Data Available No Data Available <=560 g/l [Test Method:calculated SCAQMD rule 443.1] 15 - 25 % 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

Sparks and/or flames

10.5. Incompatible materials Strong oxidizing agents

10.6. Hazardous decomposition products

Substance None known. **Condition**

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:

Prolonged or repeated exposure may cause:

Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

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.

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 | Ingestion | | No data available; calculated ATE >5,000 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 |
| Dimethyl Ether | Inhalation- Gas (4 hours) | Rat | LC50 164,000 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 |
| Non-Hazardous Components | Dermal | Not available | LD50 > 2,000 mg/kg |
| Non-Hazardous Components | Ingestion | Not available | LD50 > 2,000 mg/kg |
| Isopentane | Dermal | Rabbit | LD50 3,000 mg/kg |
| Isopentane | Inhalation- Vapor (4 hours) | Rat | LC50 > 18 mg/l |
| Isopentane | Ingestion | Rat | LD50 > 2,000 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 |
| Nitrogen | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Nitrogen | Inhalation- Gas | | LC50 estimated to be > 50,000 ppm |
| Nitrogen | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Heptane | Dermal | Rabbit | LD50 3,000 mg/kg |
| Heptane | Inhalation- Vapor (4 hours) | Rat | LC50 103 mg/l |
| Heptane | Ingestion | Rat | LD50 > 15,000 mg/kg |
| Talc | Dermal | | LD50 estimated to be $> 5,000 \text{ mg/kg}$ |

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| Talc | Ingestion | LD50 estimated to be > 5,000 mg/kg |
|-------------------------------|-----------|------------------------------------|
| ATE – soute toxicity estimate | | |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------|-----------|---------------------------|
| | | |
| Pentane | Rabbit | Minimal irritation |
| Acetone | Mouse | Minimal irritation |
| Non-Hazardous Components | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| Isopentane | Rabbit | Minimal irritation |
| Cyclopentane | Rabbit | Minimal irritation |
| Nitrogen | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| Heptane | Human | Mild irritant |
| Talc | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------|-----------|---------------------------|
| | | |
| Pentane | Rabbit | Mild irritant |
| Acetone | Rabbit | Severe irritant |
| Non-Hazardous Components | Professio | No significant irritation |
| - | nal | - |
| | judgeme | |
| | nt | |
| Isopentane | Rabbit | Mild irritant |
| Cyclopentane | Rabbit | Mild irritant |
| Nitrogen | Professio | No significant irritation |
| | nal | |
| | judgeme | |
| | nt | |
| Heptane | Professio | Moderate irritant |
| | nal | |
| | judgeme | |
| | nt | |
| Talc | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|--------------------------|---------|-----------------|
| Pentane | Guinea | Not sensitizing |
| | pig | |
| Non-Hazardous Components | | Not sensitizing |
| Isopentane | Guinea | Not sensitizing |
| | pig | |

Respiratory Sensitization

| Name | Species | Value |
|------|---------|-----------------|
| Talc | Human | Not sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|----------------|----------|--|
| | | |
| Pentane | In vivo | Not mutagenic |
| Pentane | 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 |

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| Acetone | In vivo | Not mutagenic |
|------------|----------|--|
| Acetone | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Isopentane | In vivo | Not mutagenic |
| Isopentane | In Vitro | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Heptane | In Vitro | Not mutagenic |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|----------------|------------------|-------------------------------|--|
| Dimethyl Ether | Inhalation | Rat | Not carcinogenic |
| Acetone | Not Specified | Multiple animal species | Not carcinogenic |
| Talc | Inhalation | Rat | 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 |
|----------------|------------|--|---------|--------------------------|-----------------------------|
| Pentane | Ingestion | Not toxic to development | Rat | NOAEL 1,000 mg/kg/day | during organogenesi s |
| Pentane | Inhalation | Not toxic to development | Rat | NOAEL 30 mg/l | during organogenesi s |
| Dimethyl Ether | Inhalation | Not toxic to development | Rat | NOAEL 40,000 ppm | during organogenesi s |
| 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 organogenesi s |
| Isopentane | Ingestion | Not toxic to development | Rat | NOAEL 1,000 mg/kg/day | during organogenesi s |
| Isopentane | Inhalation | Not toxic to development | Rat | NOAEL 30 mg/l | during organogenesi s |
| Talc | Ingestion | Not toxic to development | Rat | NOAEL 1,600 mg/kg | during organogenesi s |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|--------------------------------------|--|-------------------------------|------------------------|----------------------|
| 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 | Professio nal | NOAEL Not available | not available |

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| | | | | judgeme | | |
|----------------|------------|--------------------------------------|--|-----------------------------------|------------------------|---------------------------|
| | | | | nt | | |
| 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 |
| 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 | 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 |
| Isopentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| Isopentane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available |
| Isopentane | Inhalation | cardiac sensitization | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL Not available | not available |
| Isopentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | not available |
| Cyclopentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | similar compoun ds | NOAEL Not available | |
| Cyclopentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | |
| Heptane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Heptane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Heptane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|--|--|---------|------------------------|--------------------------|
| 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 | 28 days |

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| | | | | | mg/kg/day | |
|----------------|------------|--|--|---------------|------------------------------|--------------------------|
| Dimethyl Ether | Inhalation | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 25,000 ppm | 2 years |
| Dimethyl Ether | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 20,000 ppm | 30 weeks |
| 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 2,500 mg/kg/day | 13 weeks |
| 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 |
| Isopentane | Inhalation | peripheral nervous system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Isopentane | 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 |
| Isopentane | Ingestion | kidney and/or bladder | All data are negative | Rat | NOAEL 2,000 mg/kg/day | 28 days |
| Heptane | Inhalation | liver nervous system kidney and/or bladder | All data are negative | Rat | NOAEL 12 mg/l | 26 weeks |
| Talc | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis | Some positive data exist, but the | Rat | NOAEL 18 | 113 weeks |

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| respiratory system data are not sufficient for mg/m3 classification |
|---|
|---|

Aspiration Hazard

| Name | Value |
|--------------|-------------------|
| Pentane | Aspiration hazard |
| Isopentane | Aspiration hazard |
| Cyclopentane | Aspiration hazard |
| Heptane | 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

No data available.

SECTION 13: Disposal considerations

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

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. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Industrial Safety and Health Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

Trade Secret Information:

HMIRA Registry Number: Filing date: TBD

SECTION 16: Other information

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.

Claim status:

Date of decision:

Date

Health: 1 Flammability: 4 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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3M Canada SDSs are available at www.3M.ca