



Safety Data Sheet

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

1.1. Product identifier

PB960 Polystyrene Spray Adhesive, Clear, Jumbo Cylinder

Product Identification Numbers

17-0000-1011-0, 17-0000-1013-6, 17-0000-1015-1, 17-0000-1537-4
7010325108, 7010359218

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Industrial Adhesives and Tapes Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 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

Chemicals Under Pressure: Category 1.
Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (repeated exposure): Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.
Aspiration Hazard: Category 1.
Simple Asphyxiants: Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Gas cylinder | Exclamation mark | Health Hazard |

Pictograms**Hazard Statements**

Extremely flammable chemical under pressure: May explode if heated.

May damage fertility or the unborn child.

May cause drowsiness or dizziness.

May displace oxygen and cause rapid suffocation.

May be fatal if swallowed and enters airways.

Causes damage to organs through prolonged or repeated exposure: nervous system.

Precautionary statements**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

Do not breathe vapor or spray.

Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and if needed, respiratory protection (see SDS Section 8).

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Immediately call a POISON CENTER or doctor.

Get medical attention if you feel unwell.

Do NOT induce vomiting.

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

Stop leak if safe to do so.

In case of leakage, eliminate all ignition sources.

Storage:

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

Store locked up.

Protect from sunlight.

Disposal:

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

Supplemental Information:

Intentional concentration and inhalation may be harmful or fatal.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|----------------|------------|------------------------|
| Dimethyl Ether | 115-10-6 | 30 - 60 Trade Secret * |
| Hexane | 110-54-3 | 15 - 40 Trade Secret * |

| | | |
|--------------------------|---------------|----------------------|
| Non-hazardous components | Trade Secret* | 15 - 30 |
| Methylcyclopentane | 96-37-7 | 3 - 7 Trade Secret * |
| Acetone | 67-64-1 | 1 - 5 Trade Secret * |
| Nitrogen | 7727-37-9 | <= 3 |
| Toluene | 108-88-3 | < 0.5 |
| Heptane | 142-82-5 | < 0.2 |

*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. If you feel unwell, get medical attention.

Skin Contact:

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

Eye Contact:

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

If Swallowed:

Do not induce vomiting. Get immediate medical attention.

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

Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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 ordinary combustible material such as water or foam 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

Substance

Aldehydes
 Hydrocarbons
 Formaldehyde
 Methane
 Carbon monoxide
 Carbon dioxide
 Ketones
 Toxic Vapor, Gas, Particulate

Condition

During Combustion
 During Combustion
 During Combustion
 During Combustion
 During Combustion
 During Combustion
 During Combustion
 During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Close cylinder. Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. 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/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. 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. 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 |
|------------|------------|--------|------------|---------------------|
|------------|------------|--------|------------|---------------------|

| | | | | |
|--|-----------|-------|------------------------------|---|
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human carcin, Ototoxicant |
| Toluene | 108-88-3 | OSHA | TWA:200 ppm;CEIL:300 ppm | |
| Hexane | 110-54-3 | ACGIH | TWA:50 ppm | Danger of cutaneous absorption |
| Hexane | 110-54-3 | OSHA | TWA:1800 mg/m3(500 ppm) | |
| Dimethyl Ether | 115-10-6 | AIHA | TWA:1880 mg/m3(1000 ppm) | |
| Heptane | 142-82-5 | OSHA | TWA:2000 mg/m3(500 ppm) | |
| Heptane, straight and branched isomers | 142-82-5 | ACGIH | TWA:200 ppm;STEL:400 ppm | Ototoxicant |
| 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) | |
| Nitrogen | 7727-37-9 | ACGIH | Limit value not established: | simple asphyxiant |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Indirect Vented Goggles

Skin/hand protection

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

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Polymer laminate, Polyvinyl Alcohol (PVA)

For short-term or splash contact, gloves made from the following material(s) are recommended (breakthrough times are ≤4 hours): Neoprene

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

Respiratory protection

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

respirator type(s) to reduce inhalation exposure:

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

Half facepiece or full facepiece supplied-air respirator

Organic vapor cartridges 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 |
| Color | Multicolor |
| Odor | Strong Solvent |
| Odor threshold | No Data Available |
| pH | No Data Available |
| Melting point/Freezing point | No Data Available |
| Boiling point/Initial boiling point/Boiling range | -25 °C |
| Flash Point | -41.1 °C [Test Method:Closed Cup] |
| Evaporation rate | 1.9 [Ref Std:ETHER=1] |
| Flammability | Not Applicable |
| Flammable Limits(LEL) | No Data Available |
| Flammable Limits(UEL) | No Data Available |
| Vapor Pressure | No Data Available |
| Relative Vapor Density | 2.97 [Ref Std:AIR=1] |
| Density | 0.73 - 0.77 g/ml |
| Relative Density | 0.73 - 0.77 [Ref Std:WATER=1] |
| Water solubility | Nil |
| Solubility- non-water | No Data Available |
| Partition coefficient: n-octanol/ water | No Data Available |
| Autoignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Kinematic Viscosity | Not Applicable |
| Volatile Organic Compounds | No Data Available |
| Percent volatile | No Data Available |
| VOC Less H ₂ O & Exempt Solvents | < 630 g/l [Test Method:calculated SCAQMD rule 443.1] |
| Solids Content | 15 - 30 % |

| | |
|--------------------------|----------------|
| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

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
Sparks and/or flames

10.5. Incompatible materials

Not determined

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

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

Eye Contact:

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

Ingestion:

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

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.

Prolonged or repeated exposure may cause target organ effects:

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

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 |
| 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 |
| Dimethyl Ether | Inhalation-Gas (4 hours) | Rat | LC50 164,000 ppm |
| Methylcyclopentane | Inhalation-Vapor (4 hours) | Rat | LC50 > 25.3 mg/l |
| Methylcyclopentane | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Methylcyclopentane | Dermal | similar health hazards | LD50 estimated to be > 5,000 mg/kg |
| Non-hazardous components | Dermal | Not available | LD50 > 2,000 mg/kg |
| Non-hazardous components | Ingestion | Not available | LD50 > 2,000 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 |
| 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 |
| Toluene | Dermal | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation-Vapor (4 hours) | Rat | LC50 30 mg/l |
| Toluene | Ingestion | Rat | LD50 5,550 mg/kg |
| Heptane | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Heptane | Inhalation-Vapor (4 hours) | similar compounds | LC50 > 33.5 mg/l |
| Heptane | Ingestion | similar compounds | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------|---------|---------------|
| Hexane | Human | Mild irritant |

| | | |
|--------------------------|------------------------|---------------------------|
| | and animal | |
| Methylcyclopentane | Rabbit | No significant irritation |
| Non-hazardous components | Professional judgement | No significant irritation |
| Nitrogen | Professional judgement | No significant irritation |
| Acetone | Mouse | Minimal irritation |
| Toluene | Rabbit | Irritant |
| Heptane | Professional judgement | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------|------------------------|---------------------------|
| Hexane | Rabbit | Mild irritant |
| Methylcyclopentane | Rabbit | Mild irritant |
| Non-hazardous components | Professional judgement | No significant irritation |
| Nitrogen | Professional judgement | No significant irritation |
| Acetone | Rabbit | Severe irritant |
| Toluene | Rabbit | Moderate irritant |
| Heptane | similar compounds | Mild irritant |

Skin Sensitization

| Name | Species | Value |
|--------------------------|-------------------|----------------|
| Hexane | Human | Not classified |
| Methylcyclopentane | similar compounds | Not classified |
| Non-hazardous components | | Not classified |
| Toluene | Guinea pig | Not classified |
| Heptane | similar compounds | 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 |
|--------------------|----------|--|
| Hexane | In Vitro | Not mutagenic |
| Hexane | In vivo | Not mutagenic |
| Dimethyl Ether | In Vitro | Not mutagenic |
| Dimethyl Ether | In vivo | Not mutagenic |
| Methylcyclopentane | In vivo | Not mutagenic |
| Methylcyclopentane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

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

Carcinogenicity

| Name | Route | Species | Value |
|----------------|---------------|-------------------------|--|
| Hexane | Dermal | Mouse | Not carcinogenic |
| Hexane | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Ether | Inhalation | Rat | Not carcinogenic |
| Acetone | Not Specified | Multiple animal species | Not carcinogenic |
| Toluene | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------|------------|--|---------|-----------------------|------------------------|
| Hexane | Ingestion | Not classified for development | Mouse | NOAEL 2,200 mg/kg/day | during organogenesis |
| Hexane | Inhalation | Not classified for development | Rat | NOAEL 0.7 mg/l | during gestation |
| Hexane | Ingestion | Toxic to male reproduction | Rat | NOAEL 1,140 mg/kg/day | 90 days |
| Hexane | Inhalation | Toxic to male reproduction | Rat | LOAEL 3.52 mg/l | 28 days |
| Dimethyl Ether | Inhalation | Not classified for development | Rat | NOAEL 40,000 ppm | during organogenesis |
| 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 |
| Toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| Toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| Toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------|------------|-----------------------------------|--|---------|---------------------|-------------------|
| Hexane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| Hexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rabbit | NOAEL Not available | 8 hours |

| | | | | | | |
|--------------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Hexane | Inhalation | respiratory system | Not classified | Rat | NOAEL 24.6 mg/l | 8 hours |
| 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 |
| Methylcyclopentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL Not available | |
| Methylcyclopentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | 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 |
| Toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| 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 | similar health hazards | 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 |
|--------|------------|---------------------------|--|---------|---------------------|-----------------------|
| Hexane | Inhalation | peripheral nervous system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Hexane | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Mouse | LOAEL 1.76 mg/l | 13 weeks |
| Hexane | Inhalation | liver | Not classified | Rat | NOAEL Not available | 6 months |
| Hexane | Inhalation | kidney and/or bladder | Not classified | Rat | LOAEL 1.76 mg/l | 6 months |
| Hexane | Inhalation | hematopoietic system | Not classified | Mouse | NOAEL 35.2 mg/l | 13 weeks |
| Hexane | Inhalation | auditory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Hexane | Inhalation | immune system | Not classified | Human | NOAEL Not available | occupational exposure |
| Hexane | Inhalation | eyes | Not classified | Human | NOAEL Not available | occupational exposure |
| Hexane | Inhalation | heart | Not classified | Rat | NOAEL 1.76 mg/l | 6 months |
| Hexane | Inhalation | skin | Not classified | Rat | NOAEL 1.76 mg/l | 6 months |
| Hexane | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.76 mg/l | 6 months |
| Hexane | Ingestion | peripheral nervous | Some positive data exist, but the | Rat | NOAEL | 90 days |

| | | | | | | |
|--------------------|------------|---------------------------------|--|------------|-----------------------|---------------|
| | | system | data are not sufficient for classification | | 1,140 mg/kg/day | |
| Hexane | Ingestion | endocrine system | Not classified | Rat | NOAEL Not available | 13 weeks |
| Hexane | Ingestion | hematopoietic system | Not classified | Rat | NOAEL Not available | 13 weeks |
| Hexane | Ingestion | liver | Not classified | Rat | NOAEL Not available | 13 weeks |
| Hexane | Ingestion | immune system | Not classified | Rat | NOAEL Not available | 13 weeks |
| Hexane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL Not available | 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 |
| Methylcyclopentane | Inhalation | liver | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | heart | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | skin | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | endocrine system | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | immune system | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | muscles | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | nervous system | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | eyes | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | respiratory system | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Inhalation | vascular system | Not classified | Rat | NOAEL 20.2 mg/l | 13 weeks |
| Methylcyclopentane | Ingestion | peripheral nervous system | Not classified | Rat | NOAEL 800 mg/kg/day | 8 weeks |
| Methylcyclopentane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 4 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 | Not classified | Rat | NOAEL 45 mg/l | 8 weeks |
| Acetone | Inhalation | 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 | Not classified | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| Acetone | Ingestion | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| Toluene | Inhalation | auditory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Toluene | Inhalation | heart | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | liver | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Toluene | Inhalation | hematopoietic system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | liver | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| Heptane | Inhalation | nervous system | Not classified | Rat | NOAEL 6.15 mg/l | 30 weeks |

| | | | | | | |
|---------|------------|---------------------------|----------------|-----|-----------------|----------|
| Heptane | Inhalation | peripheral nervous system | Not classified | Rat | NOAEL 12.5 mg/l | 16 weeks |
| Heptane | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 12.2 mg/l | 26 weeks |
| Heptane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 12.2 mg/l | 26 weeks |

Aspiration Hazard

| Name | Value |
|--------------------|-------------------|
| Hexane | Aspiration hazard |
| Methylcyclopentane | Aspiration hazard |
| Toluene | 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**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.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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 manufacturer for more information

EPCRA 311/312 Hazard Classifications:**Physical Hazards**

Not Applicable.

| |
|--|
| Health Hazards |
| Aspiration Hazard |
| Reproductive toxicity |
| 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):

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|-------------------|------------------|----------------------|
| Hexane | 110-54-3 | Trade Secret 15 - 40 |

15.2. State Regulations

Contact manufacturer for more information

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact manufacturer for more information

15.4. International Regulations

Contact manufacturer 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: 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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|------------------------|-----------|-------------------------|----------|
| Document Group: | 30-7315-2 | Version Number: | 6.04 |
| Issue Date: | 03/11/26 | Supersedes Date: | 12/17/25 |

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