# Safety Data Sheet



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|---|---|---|---|
| **Document Group:** | 44-0833-2 | **Version Number:** | 1.07 |
| **Issue Date:** | 02/24/26 | **Supersedes Date:** | 11/14/25 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Dry Layup Adhesive 09091. 16.5oz, Red

**Product Identification Numbers**
60-4300-5068-6, UU-0112-8526-7, UU-0112-8527-5
7100245773, 7100245774, 7100010064

**1.2. Recommended use and restrictions on use**

**Recommended use**
Adhesive

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Electrical Markets 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.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (single exposure): Category 1.
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.

Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
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: cardiovascular system.

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.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**
IF ON SKIN: Wash with plenty of soap and water.
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 exposed or concerned: Immediately call a POISON CENTER or doctor.
Get medical attention if you feel unwell.
Do NOT induce vomiting.
If eye irritation persists or if skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
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. Store in a well-ventilated place.

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

**Notes to Physician:**
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**Supplemental Information:**
Intentional concentration and inhalation may be harmful or fatal.

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| 2-Methylpentane | 107-83-5 | < 44 |
| Cyclohexane | 110-82-7 | 10 - 30 Trade Secret * |
| Non-volatile Components 2 | Trade Secret* | 10 - 30 |
| Dimethyl Ether | 115-10-6 | 7 - 13 Trade Secret * |
| Isobutane | 75-28-5 | 7 - 13 Trade Secret * |
| Propane | 74-98-6 | 7 - 13 Trade Secret * |
| Non-volatile Components 1 | Trade Secret* | 5 - 10 |
| Terpene Phenolic | Trade Secret* | < 10 |
| Ethyl Alcohol | 64-17-5 | 1 - 5 Trade Secret * |
| Pentane | 109-66-0 | < 3 |
| Hexane | 110-54-3 | < 1.5 |
| Heptane | 142-82-5 | < 1 |
| Methyl isobutyl ketone | 108-10-1 | < 1 |
| Toluene | 108-88-3 | < 1 |
| Stabilizer 1 | 41556-26-7 | < 0.2 |
| Stabilizer 2 | 82919-37-7 | < 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. 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:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If Swallowed:**
Do not induce vomiting. Get immediate medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). 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. See Section 11 for additional details. 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**
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 | Condition |
|---|---|
| Hydrocarbons | During Combustion |
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | 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. 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**
For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. 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 closed 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 use only. Not intended for use as a medical device or drug. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 50°C/122°F. Store away from heat.

## 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 |
|---|---|---|---|---|
| Branched Hexane Isomers | 107-83-5 | ACGIH | TWA:200 ppm | A3: Confirmed animal carcin. |
| Methyl isobutyl ketone | 108-10-1 | ACGIH | TWA:20 ppm;STEL:75 ppm | A3: Confirmed animal carcin. |
| Methyl isobutyl ketone | 108-10-1 | OSHA | TWA:410 mg/m3(100 ppm) | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human carcin, Ototoxicant |
| Toluene | 108-88-3 | OSHA | TWA:200 ppm;CEIL:300 ppm | |
| Pentane | 109-66-0 | OSHA | TWA:2950 mg/m3(1000 ppm) | |
| Pentane, all isomers | 109-66-0 | ACGIH | TWA:1000 ppm | |
| Hexane | 110-54-3 | ACGIH | TWA:50 ppm | Danger of cutaneous absorption |
| Hexane | 110-54-3 | OSHA | TWA:1800 mg/m3(500 ppm) | |
| Cyclohexane | 110-82-7 | ACGIH | TWA:100 ppm | |
| Cyclohexane | 110-82-7 | OSHA | TWA:1050 mg/m3(300 ppm) | |
| 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 |
| Ethyl Alcohol | 64-17-5 | ACGIH | STEL:1000 ppm | A3: Confirmed animal carcin. |
| Ethyl Alcohol | 64-17-5 | OSHA | TWA:1900 mg/m3(1000 ppm) | |
| Butane, all isomers | 74-98-6 | ACGIH | STEL:1000 ppm | |
| Propane | 74-98-6 | ACGIH | Limit value not established: | simple asphyxiant |
| Propane | 74-98-6 | OSHA | TWA:1800 mg/m3(1000 ppm) | |
| Butane, all isomers | 75-28-5 | ACGIH | STEL:1000 ppm | |
| Natural gas | 75-28-5 | ACGIH | Limit value not established: | simple asphyxiant |
| Non-volatile Components 2 | Trade Secret | ACGIH | TWA(as Resin, inhalable fraction):0.001 mg/m3 | Dermal/Respiratory Sensitizer |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**8.2. Exposure controls**

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

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

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

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

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

**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.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid Aerosol |
| **Specific Physical Form:** | Aerosol |
| **Color** | Red |
| **Odor** | Mild Ethanolic |
| **Odor threshold** | *No Data Available* |
| **pH** | *No Data Available* |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point/Initial boiling point/Boiling range** | *No Data Available* |

| | |
|---|---|
| **Flash Point** | *No Data Available* |
| **Evaporation rate** | *No Data Available* |
| **Flammability** | Flammable Aerosol: Category 1. |
| **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** | *No Data Available* |
| **Relative Density** | *No Data Available* |
| **Water solubility** | *No Data Available* |
| **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** | *No Data Available* |
| **Volatile Organic Compounds** | *No Data Available* |
| **Percent volatile** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | *No Data Available* |

| | |
|---|---|
| **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

**10.5. Incompatible materials**
Combustibles

**10.6. Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**Inhalation:**
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. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**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.

Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

**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.

**Carcinogenicity:**
Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Methyl isobutyl ketone | 108-10-1 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human

consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

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

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 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 |
| Non-volatile Components 2 | Dermal | Rat | LD50 > 2,000 mg/kg |
| Non-volatile Components 2 | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Isobutane | Inhalation-Gas (4 hours) | Rat | LC50 276,000 ppm |
| Propane | Inhalation-Gas (4 hours) | Rat | LC50 > 200,000 ppm |
| 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 |
| Dimethyl Ether | Inhalation-Gas (4 hours) | Rat | LC50 164,000 ppm |
| Non-volatile Components 1 | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Non-volatile Components 1 | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Terpene Phenolic | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Terpene Phenolic | Ingestion | Rat | LD50 > 7,000 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 |
| Ethyl Alcohol | Dermal | Rabbit | LD50 > 15,800 mg/kg |
| Ethyl Alcohol | Inhalation-Vapor (4 hours) | Rat | LC50 124.7 mg/l |
| Ethyl Alcohol | Ingestion | Rat | LD50 17,800 mg/kg |
| 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 |
| Heptane | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Heptane | Inhalation-Vapor (4 hours) | similar compounds | LC50 > 33.5 mg/l |
| Heptane | Ingestion | similar compoun | LD50 > 5,000 mg/kg |

| | | | |
|---|---|---|---|
| | | ds | |
| Methyl isobutyl ketone | Dermal | Rabbit | LD50 > 16,000 mg/kg |
| Methyl isobutyl ketone | Inhalation-Vapor (4 hours) | Rat | LC50 11 mg/l |
| Methyl isobutyl ketone | Ingestion | Rat | LD50 3,038 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 |
| Stabilizer 1 | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Stabilizer 2 | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Stabilizer 1 | Ingestion | Rat | LD50 3,125 mg/kg |
| Stabilizer 2 | Ingestion | Rat | LD50 3,125 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| 2-Methylpentane | Professional judgement | Mild irritant |
| Non-volatile Components 2 | Rabbit | No significant irritation |
| Isobutane | Professional judgement | No significant irritation |
| Propane | Rabbit | Minimal irritation |
| Cyclohexane | Rabbit | Mild irritant |
| Non-volatile Components 1 | Professional judgement | Minimal irritation |
| Pentane | Rabbit | Minimal irritation |
| Ethyl Alcohol | Rabbit | No significant irritation |
| Hexane | Human and animal | Mild irritant |
| Heptane | Professional judgement | Mild irritant |
| Methyl isobutyl ketone | Rabbit | Mild irritant |
| Toluene | Rabbit | Irritant |
| Stabilizer 1 | Rabbit | Minimal irritation |
| Stabilizer 2 | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| 2-Methylpentane | Professional judgement | Moderate irritant |
| Non-volatile Components 2 | Rabbit | Mild irritant |
| Isobutane | Professional | No significant irritation |

| | | |
|---|---|---|
| | judgement | |
| Propane | Rabbit | Mild irritant |
| Cyclohexane | Rabbit | Mild irritant |
| Pentane | Rabbit | Mild irritant |
| Ethyl Alcohol | Rabbit | Severe irritant |
| Hexane | Rabbit | Mild irritant |
| Heptane | similar compounds | Mild irritant |
| Methyl isobutyl ketone | Rabbit | Mild irritant |
| Toluene | Rabbit | Moderate irritant |
| Stabilizer 1 | Rabbit | Mild irritant |
| Stabilizer 2 | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Non-volatile Components 2 | Human and animal | Not classified |
| Terpene Phenolic | Human | Some positive data exist, but the data are not sufficient for classification |
| Pentane | Guinea pig | Not classified |
| Ethyl Alcohol | Human | Not classified |
| Hexane | Human | Not classified |
| Heptane | similar compounds | Not classified |
| Methyl isobutyl ketone | Guinea pig | Not classified |
| Toluene | Guinea pig | Not classified |
| Stabilizer 1 | Guinea pig | Sensitizing |
| Stabilizer 2 | Guinea pig | 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 |
|---|---|---|
| Isobutane | In Vitro | Not mutagenic |
| Propane | In Vitro | Not mutagenic |
| Cyclohexane | In Vitro | Not mutagenic |
| Cyclohexane | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Ether | In Vitro | Not mutagenic |
| Dimethyl Ether | In vivo | Not mutagenic |
| Pentane | In vivo | Not mutagenic |
| Pentane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Hexane | In Vitro | Not mutagenic |
| Hexane | In vivo | Not mutagenic |
| Heptane | In Vitro | Not mutagenic |
| Methyl isobutyl ketone | In Vitro | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |

| | | |
|---|---|---|
| Stabilizer 1 | In vivo | Not mutagenic |
| Stabilizer 1 | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Stabilizer 2 | In vivo | Not mutagenic |
| Stabilizer 2 | In Vitro | Some positive data exist, but the data are not sufficient for classification |

## Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Dimethyl Ether | Inhalation | Rat | Not carcinogenic |
| Ethyl Alcohol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Hexane | Dermal | Mouse | Not carcinogenic |
| Hexane | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Methyl isobutyl ketone | Inhalation | Multiple animal species | 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 |
|---|---|---|---|---|---|
| Cyclohexane | Inhalation | Not classified for female reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| Cyclohexane | Inhalation | Not classified for male reproduction | Rat | NOAEL 24 mg/l | 2 generation |
| Cyclohexane | Inhalation | Not classified for development | Rat | NOAEL 6.9 mg/l | 2 generation |
| Dimethyl Ether | Inhalation | Not classified for development | Rat | NOAEL 40,000 ppm | during organogenesis |
| Pentane | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| Pentane | Inhalation | Not classified for development | Rat | NOAEL 30 mg/l | during organogenesis |
| Ethyl Alcohol | Inhalation | Not classified for development | Rat | NOAEL 38 mg/l | during gestation |
| Ethyl Alcohol | Ingestion | Not classified for development | Rat | NOAEL 5,200 mg/kg/day | premating & during gestation |
| 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 |
| Methyl isobutyl ketone | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| Methyl isobutyl ketone | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |

| | | | | | |
|---|---|---|---|---|---|
| Methyl isobutyl ketone | Inhalation | Not classified for male reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| Methyl isobutyl ketone | Inhalation | Not classified for development | Mouse | NOAEL 12.3 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 |
| Stabilizer 1 | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | premating into lactation |
| Stabilizer 1 | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | premating into lactation |
| Stabilizer 2 | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | premating into lactation |
| Stabilizer 2 | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | premating into lactation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| 2-Methylpentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 2-Methylpentane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| 2-Methylpentane | Inhalation | cardiac sensitization | Not classified | Dog | NOAEL Not available | |
| 2-Methylpentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| Isobutane | Inhalation | cardiac sensitization | Causes damage to organs | Multiple animal species | NOAEL Not available | |
| Isobutane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Isobutane | Inhalation | respiratory irritation | Not classified | Mouse | NOAEL Not available | |
| Propane | Inhalation | cardiac sensitization | Causes damage to organs | Human | NOAEL Not available | |
| Propane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Propane | Inhalation | respiratory irritation | Not classified | Human | NOAEL Not available | |
| 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 | May cause drowsiness or | Professio | NOAEL Not | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | system depression | dizziness | nal judgeme nt | available | |
| Dimethyl Ether | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 10,000 ppm | 30 minutes |
| Dimethyl Ether | Inhalation | cardiac sensitization | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 100,000 ppm | 5 minutes |
| Pentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | not available |
| Pentane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL Not available | not available |
| Pentane | Inhalation | cardiac sensitization | Not classified | Dog | NOAEL Not available | not available |
| Pentane | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professio nal judgeme nt | NOAEL Not available | not available |
| Ethyl Alcohol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | LOAEL 9.4 mg/l | not available |
| Ethyl Alcohol | Inhalation | central nervous system depression | Not classified | Human and animal | NOAEL not available | |
| Ethyl Alcohol | Ingestion | central nervous system depression | Not classified | Multiple animal species | NOAEL not available | |
| Ethyl Alcohol | Ingestion | kidney and/or bladder | Not classified | Dog | NOAEL 3,000 mg/kg | |
| 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 |
| 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 | |
| Methyl isobutyl ketone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | LOAEL 0.1 mg/l | 2 hours |
| Methyl isobutyl ketone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Methyl isobutyl ketone | Inhalation | vascular system | Not classified | Dog | NOAEL Not available | not available |
| Methyl isobutyl ketone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 900 mg/kg | not applicable |
| 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 |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 2-Methylpentane | Inhalation | peripheral nervous system | Not classified | Rat | NOAEL 5.3 mg/l | 14 weeks |
| 2-Methylpentane | Ingestion | peripheral nervous system | Not classified | Rat | NOAEL Not available | 8 weeks |
| 2-Methylpentane | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 2,000 mg/kg/day | 28 days |
| Isobutane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 4,500 ppm | 13 weeks |
| Cyclohexane | Inhalation | liver | Not classified | Rat | NOAEL 24 mg/l | 90 days |
| Cyclohexane | Inhalation | auditory system | Not classified | Rat | NOAEL 1.7 mg/l | 90 days |
| Cyclohexane | Inhalation | kidney and/or bladder | Not classified | Rabbit | NOAEL 2.7 mg/l | 10 weeks |
| Cyclohexane | Inhalation | hematopoietic system | Not classified | Mouse | NOAEL 24 mg/l | 14 weeks |
| Cyclohexane | Inhalation | peripheral nervous system | Not classified | Rat | NOAEL 8.6 mg/l | 30 weeks |
| Dimethyl Ether | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 25,000 ppm | 2 years |
| Dimethyl Ether | Inhalation | liver | Not classified | Rat | NOAEL 20,000 ppm | 30 weeks |
| Pentane | Inhalation | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| Pentane | Inhalation | heart | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | skin | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | endocrine system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | liver | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | immune system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | muscles | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | nervous system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | eyes | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Inhalation | respiratory system | Not classified | Rat | NOAEL 20 mg/l | 13 weeks |
| Pentane | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2,000 mg/kg/day | 28 days |
| Ethyl Alcohol | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rabbit | LOAEL 124 mg/l | 365 days |
| Ethyl Alcohol | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 25 mg/l | 14 days |
| Ethyl Alcohol | Inhalation | immune system | Not classified | Rat | NOAEL 25 mg/l | 14 days |
| Ethyl Alcohol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 8,000 mg/kg/day | 4 months |
| Ethyl Alcohol | Ingestion | kidney and/or bladder | Not classified | Dog | NOAEL 3,000 mg/kg/day | 7 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 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 | 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 |
| 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 |
| Methyl isobutyl ketone | Inhalation | liver | Not classified | Rat | NOAEL 0.41 mg/l | 13 weeks |
| Methyl isobutyl ketone | Inhalation | heart | Not classified | Multiple animal species | NOAEL 0.8 mg/l | 2 weeks |
| Methyl isobutyl ketone | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 0.4 mg/l | 90 days |
| Methyl isobutyl ketone | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 4.1 mg/l | 14 weeks |
| Methyl isobutyl ketone | Inhalation | endocrine system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| Methyl isobutyl ketone | Inhalation | hematopoietic system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| Methyl isobutyl ketone | Inhalation | nervous system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 13 weeks |
| Methyl isobutyl ketone | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| Methyl isobutyl ketone | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Methyl isobutyl ketone | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Methyl isobutyl ketone | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Methyl isobutyl ketone | Ingestion | heart | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| Methyl isobutyl ketone | Ingestion | immune system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| Methyl isobutyl ketone | Ingestion | muscles | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| Methyl isobutyl ketone | Ingestion | nervous system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| Methyl isobutyl ketone | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| 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 | Not classified | Mouse | NOAEL 600 | 14 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | system | | | mg/kg/day | |
| 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 |
| Stabilizer 1 | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |
| Stabilizer 1 | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | liver | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | immune system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | heart | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | nervous system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 1 | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |
| Stabilizer 2 | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | liver | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | immune system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | heart | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | nervous system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Stabilizer 2 | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |

## Aspiration Hazard

| Name | Value |
|---|---|
| 2-Methylpentane | Aspiration hazard |
| Cyclohexane | Aspiration hazard |
| Pentane | Aspiration hazard |
| Hexane | Aspiration hazard |
| Heptane | Aspiration hazard |

| | |
|---|---|
| Methyl isobutyl ketone | Some positive data exist, but the data are not sufficient for classification |
| Toluene | 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. Facility must be capable of handling aerosol cans. 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), D018 (Benzene), D035 (Methyl ethyl ketone)

## SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

| **Physical Hazards** |
|---|
| Not Applicable. |

| **Health Hazards** |
|---|
| Aspiration Hazard |
| Carcinogenicity |
| Reproductive toxicity |
| Respiratory or Skin Sensitization |
| Serious eye damage or eye irritation |
| Simple Asphyxiant |

Specific target organ toxicity (single or repeated exposure)

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

| Ingredient | C.A.S. No | % by Wt |
|---|---|---|
| Cyclohexane | 110-82-7 | Trade Secret 10 - 30 |
| Hexane | 110-54-3 | < 1.5 |
| Methyl isobutyl ketone | 108-10-1 | < 1 |

## 15.2. State Regulations
Contact 3M for more information.

## 15.3. Chemical Inventories
Contact 3M for more information.

## 15.4. International Regulations
Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

# SECTION 16: Other information

**NFPA Hazard Classification**
**Health:** 2 **Flammability:** 3 **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.

| | | | |
|---|---|---|---|
| **Document Group:** | 44-0833-2 | **Version Number:** | 1.07 |
| **Issue Date:** | 02/24/26 | **Supersedes Date:** | 11/14/25 |

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