# Safety Data Sheet

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## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Structural Adhesive Primer RMS070

**Product Identification Numbers**
62-3976-8540-5, 87-2500-0226-5, 87-3300-0603-9
7100078309, 7100078430, 7100067914

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

**Recommended use**
Primer

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Automotive and Aerospace Solutions 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**
Flammable Liquid: Category 2.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.
Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (single exposure): Category 3.

**2.2. Label elements**
**Signal word**
Danger

**Symbols**
Flame |Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**
Highly flammable liquid and vapor.

Causes serious eye irritation.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
May cause drowsiness or dizziness.

**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.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing vapor or spray.
Wash exposed skin thoroughly after handling.
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, face protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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: Call a POISON CENTER or doctor.
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.

**Storage:**
Store in a well-ventilated place. Keep cool.
Store locked up.

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

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Methyl Ethyl Ketone | 78-93-3 | 80 - 100 Trade Secret * |
| Phenol Formaldehyde Polymer | 9003-35-4 | 3 - 7 Trade Secret * |
| Acrylonitrile-Butadiene Polymer | 9003-18-3 | < 5 |
| Hexamine | 100-97-0 | < 1 |

| | | |
|---|---|---|
| Acetone | 67-64-1 | < 0.99 |
| Toluene | 108-88-3 | <= 0.99 |
| PHENOL | 108-95-2 | < 0.3 |
| ZINC OXIDE | 1314-13-2 | < 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:**
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:**
Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

**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**

| Substance | Condition |
|---|---|
| Hydrocarbons | During Combustion |
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Ammonia | During Combustion |
| Oxides of Nitrogen | 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**
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. 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.

**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. 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 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 handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. 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. 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 |
|---|---|---|---|---|
| Hexamine | 100-97-0 | ACGIH | TWA(inhalable fraction and vapor):1 mg/m3 | A4: Not class. as human carcin,Dermal Sensitizer |
| 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 | |
| PHENOL | 108-95-2 | ACGIH | TWA:5 ppm | A4: Not class. as human carcin,Danger of cutaneous absorption |
| PHENOL | 108-95-2 | OSHA | TWA:19 mg/m3(5 ppm) | SKIN |
| ZINC OXIDE | 1314-13-2 | ACGIH | TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 mg/m3 | |
| ZINC OXIDE | 1314-13-2 | OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3;TWA(as fume):5 mg/m3 | |
| Acetone | 67-64-1 | ACGIH | TWA:250 ppm;STEL:500 ppm | A4: Not class. as human carcin |
| Acetone | 67-64-1 | OSHA | TWA:2400 mg/m3(1000 ppm) | |
| Methyl Ethyl Ketone | 78-93-3 | ACGIH | TWA:75 ppm;STEL:150 ppm | Danger of cutaneous absorption |
| Methyl Ethyl Ketone | 78-93-3 | OSHA | TWA:590 mg/m3(200 ppm) | |

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

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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. 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:
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 and particulates

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** | Tan |
| **Odor** | Strong Ketones |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point/Initial boiling point/Boiling range** | 79.4 ºC [@ 101,325 Pa ] [*Details:*CONDITIONS: (MEK)] |
| **Flash Point** | -6.7 ºC [*Test Method:*Closed Cup] |
| **Evaporation rate** | 2.7 [*Ref Std:*ETHER=1] |
| **Flammability** | Flammable Liquid: Category 2. |
| **Flammable Limits(LEL)** | 1.8 % volume [@ 21.1 ºC ] [*Test Method:*Estimated] |
| **Flammable Limits(UEL)** | 11.5 % volume [@ 21.1 ºC ] [*Test Method:*Estimated] |
| **Vapor Pressure** | 10,665.8 Pa [@ 20 ºC ] [*Test Method:*Estimated] |
| **Relative Vapor Density** | 2.5 [*Ref Std:*AIR=1] |
| **Density** | 0.83 g/ml [@ 21.1 ºC ] |
| **Relative Density** | 0.83 [*Ref Std:*WATER=1] |
| **Water solubility** | Nil |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | 403.9 ºC [*Test Method:*Estimated] |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | 15.7 mm2/sec |
| **Volatile Organic Compounds** | < 750 g/l [*Test Method:*calculated SCAQMD rule 443.1] |
| **Percent volatile** | 91 % |
| **VOC Less H2O & Exempt Solvents** | < 750 g/l [*Test Method:*calculated SCAQMD rule 443.1] |

| | |
|---|---|
| **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**
Strong oxidizing agents

**10.6. Hazardous decomposition products**

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

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

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

**Inhalation:**
May be harmful if inhaled.
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:**
May be harmful if swallowed.
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.

**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 | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Methyl Ethyl Ketone | Dermal | Rabbit | LD50 > 8,050 mg/kg |
| Methyl Ethyl Ketone | Inhalation-Vapor (4 hours) | Rat | LC50 34.5 mg/l |
| Methyl Ethyl Ketone | Ingestion | Rat | LD50 2,737 mg/kg |
| Phenol Formaldehyde Polymer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Phenol Formaldehyde Polymer | Ingestion | Rat | LD50 > 2,900 mg/kg |
| Acrylonitrile-Butadiene Polymer | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| Acrylonitrile-Butadiene Polymer | Ingestion | Rat | LD50 > 30,000 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 |
| Hexamine | Dermal | Rat | LD50 > 2,000 mg/kg |
| Hexamine | Ingestion | Rat | LD50 9,200 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 |
| PHENOL | Inhalation-Vapor | | LC50 estimated to be 2 - 10 mg/l |
| PHENOL | Dermal | Rat | LD50 670 mg/kg |
| PHENOL | Ingestion | Rat | LD50 340 mg/kg |
| ZINC OXIDE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| ZINC OXIDE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| ZINC OXIDE | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Methyl Ethyl Ketone | Rabbit | Minimal irritation |
| Phenol Formaldehyde Polymer | Human and animal | Mild irritant |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Toluene | Rabbit | Irritant |
| Hexamine | Rabbit | No significant irritation |
| Acetone | Mouse | Minimal irritation |
| PHENOL | Rat | Corrosive |
| ZINC OXIDE | Human | No significant irritation |

| | | |
|---|---|---|
| | and animal | |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Methyl Ethyl Ketone | Rabbit | Severe irritant |
| Phenol Formaldehyde Polymer | Human and animal | Moderate irritant |
| Acrylonitrile-Butadiene Polymer | Professional judgement | No significant irritation |
| Toluene | Rabbit | Moderate irritant |
| Hexamine | Rabbit | No significant irritation |
| Acetone | Rabbit | Severe irritant |
| PHENOL | Rabbit | Corrosive |
| ZINC OXIDE | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Phenol Formaldehyde Polymer | Human and animal | Sensitizing |
| Toluene | Guinea pig | Not classified |
| Hexamine | Multiple animal species | Sensitizing |
| PHENOL | Guinea pig | Not classified |
| ZINC OXIDE | Guinea pig | Not classified |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| Phenol Formaldehyde Polymer | Human | Not classified |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Methyl Ethyl Ketone | In Vitro | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Hexamine | In vivo | Not mutagenic |
| Hexamine | 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 |
| PHENOL | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| PHENOL | In vivo | Some positive data exist, but the data are not sufficient for classification |
| ZINC OXIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ZINC OXIDE | In vivo | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Methyl Ethyl Ketone | Inhalation | Human | 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 |
| Hexamine | Ingestion | Multiple animal species | Not carcinogenic |
| Hexamine | Dermal | Human | Some positive data exist, but the data are not sufficient for classification |
| Hexamine | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Acetone | Not Specified | Multiple animal species | Not carcinogenic |
| PHENOL | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| PHENOL | Ingestion | 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 |
|---|---|---|---|---|---|
| Methyl Ethyl Ketone | Inhalation | Not classified for development | Rat | LOAEL 8.8 mg/l | during gestation |
| 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 |
| Hexamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 2,000 mg/kg/day | 3 generation |
| Hexamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,500 mg/kg/day | 3 generation |
| Hexamine | Ingestion | Not classified for development | Dog | NOAEL 15 mg/kg/day | during gestation |
| 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 |
| PHENOL | Ingestion | Not classified for female reproduction | Rat | NOAEL 321 mg/kg/day | 2 generation |
| PHENOL | Ingestion | Not classified for male reproduction | Rat | NOAEL 321 mg/kg/day | 2 generation |
| PHENOL | Ingestion | Not classified for development | Rat | NOAEL 120 mg/kg/day | during organogenesis |
| ZINC OXIDE | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | premating & during gestation |

## Lactation

| Name | Route | Species | Value |
|---|---|---|---|
| Hexamine | Ingestion | Human | Not classified for effects on or via lactation |

## Target Organ(s)

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | official classification | NOAEL Not available | |
| Methyl Ethyl Ketone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Methyl Ethyl Ketone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| Methyl Ethyl Ketone | Ingestion | liver | Not classified | Rat | NOAEL Not available | not applicable |
| Methyl Ethyl Ketone | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 1,080 mg/kg | not applicable |
| Phenol Formaldehyde Polymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| 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 |
| 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 |
| PHENOL | Dermal | hematoppoitic system | Causes damage to organs | Rat | LOAEL 108 mg/kg | not available |
| PHENOL | Dermal | heart \| nervous system \| kidney and/or bladder | Causes damage to organs | Rat | LOAEL 107 mg/kg | 24 hours |
| PHENOL | Dermal | liver | Not classified | Human | NOAEL Not available | not available |
| PHENOL | Inhalation | respiratory irritation | May cause respiratory irritation | Multiple animal species | NOAEL Not available | not available |
| PHENOL | Ingestion | kidney and/or bladder | Causes damage to organs | Rat | NOAEL 120 mg/kg/day | not applicable |
| PHENOL | Ingestion | respiratory system | Causes damage to organs | Human | NOAEL not available | poisoning and/or abuse |
| PHENOL | Ingestion | endocrine system \| liver | Not classified | Rat | NOAEL 224 mg/kg | not applicable |
| PHENOL | Ingestion | heart | Not classified | 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 |
|---|---|---|---|---|---|---|
| Methyl Ethyl Ketone | Dermal | nervous system | Not classified | Guinea pig | NOAEL Not available | 31 weeks |
| Methyl Ethyl Ketone | Inhalation | liver | Not classified | Rat | NOAEL 14.7 | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | mg/l | |
| Methyl Ethyl Ketone | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | heart | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | endocrine system | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | immune system | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Inhalation | muscles | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| Methyl Ethyl Ketone | Ingestion | liver | Not classified | Rat | NOAEL Not available | 7 days |
| Methyl Ethyl Ketone | Ingestion | nervous system | Not classified | Rat | NOAEL 173 mg/kg/day | 90 days |
| Phenol Formaldehyde Polymer | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| 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 |

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|---|---|---|---|---|---|---|
| | | 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 |
| 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 |
| PHENOL | Dermal | nervous system | May cause damage to organs though prolonged or repeated exposure | Rabbit | LOAEL 260 mg/kg/day | 18 days |
| PHENOL | Inhalation | heart | Causes damage to organs through prolonged or repeated exposure | Guinea pig | LOAEL 0.1 mg/l | 41 days |
| PHENOL | Inhalation | liver | Causes damage to organs through prolonged or repeated exposure | Guinea pig | LOAEL 0.1 mg/l | 41 days |
| PHENOL | Inhalation | kidney and/or bladder | Causes damage to organs through prolonged or repeated exposure | Guinea pig | LOAEL 0.1 mg/l | 41 days |
| PHENOL | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Guinea pig | LOAEL 0.1 mg/l | 41 days |
| PHENOL | Inhalation | nervous system | May cause damage to organs though prolonged or repeated exposure | Multiple animal species | LOAEL 0.1 mg/l | 14 days |
| PHENOL | Inhalation | hematopoietic system | Not classified | Human | NOAEL Not available | occupational exposure |
| PHENOL | Inhalation | immune system | Not classified | Rat | NOAEL 0.1 mg/l | 2 weeks |
| PHENOL | Ingestion | kidney and/or bladder | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 12 mg/kg/day | 14 days |
| PHENOL | Ingestion | hematopoietic system | Causes damage to organs through prolonged or repeated exposure | Mouse | LOAEL 1.8 mg/kg/day | 28 days |
| PHENOL | Ingestion | nervous system | May cause damage to organs though prolonged or repeated exposure | Rat | LOAEL 308 mg/kg/day | 13 weeks |
| PHENOL | Ingestion | liver | Not classified | Rat | NOAEL 40 | 14 days |

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|---|---|---|---|---|---|---|
| | | | | | mg/kg/day | |
| PHENOL | Ingestion | respiratory system | Not classified | Rat | LOAEL 40 mg/kg/day | 14 days |
| PHENOL | Ingestion | immune system | Not classified | Mouse | NOAEL 1.8 mg/kg/day | 28 days |
| PHENOL | Ingestion | endocrine system | Not classified | Rat | NOAEL 120 mg/kg/day | 14 days |
| PHENOL | Ingestion | skin | Not classified | Multiple animal species | NOAEL 1,204 mg/kg/day | 103 weeks |
| PHENOL | Ingestion | bone, teeth, nails, and/or hair | Not classified | Multiple animal species | NOAEL 1,204 mg/kg/day | 103 weeks |
| ZINC OXIDE | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 10 days |
| ZINC OXIDE | Ingestion | endocrine system | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| ZINC OXIDE | Ingestion | hematopoietic system | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |
| ZINC OXIDE | Ingestion | kidney and/or bladder | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |

**Aspiration Hazard**

| Name | Value |
|---|---|
| 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. 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), 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** |
|---|
| Flammable (gases, aerosols, liquids, or solids) |

| **Health Hazards** |
|---|
| Reproductive toxicity |
| Respiratory or Skin Sensitization |
| Serious eye damage or eye irritation |
| Specific target organ toxicity (single or repeated exposure) |

## 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

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

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:** | 10-8561-2 | **Version Number:** | 18.00 |
| **Issue Date:** | 11/12/25 | **Supersedes Date:** | 07/31/25 |

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