



Safety Data Sheet

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

SECTION 1: Identification

1.1. Product identifier

3M™ Scotch-Weld™ Structural Adhesive Primer EC-3924B

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| 62-3944-6501-7 | 62-3944-6550-4 | 62-3944-7550-3 | 62-3944-8501-5 | 62-3944-8550-2 |
| 62-3944-9501-4 | 87-3300-0024-8 | 87-3300-0598-1 | 87-3300-0667-4 | 87-3300-0668-2 |
| 87-3300-0669-0 | HB-0041-5950-3 | XD-0055-2876-0 | | |

1.2. Recommended use and restrictions on use

Intended Use

Industrial use

Specific Use

Primer for adhesive

Restrictions on use

Not applicable

1.3. Supplier's details

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

1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1800 364 3577

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 1.

Skin Sensitizer: Category 1.

Carcinogenicity: Category 1A.

Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Corrosion | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Highly flammable liquid and vapour.
Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause respiratory irritation.

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 vapours, dust, or spray. 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. Immediately call a POISON CENTER or doctor. 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.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---------------------|------------|------------------------|----------------------------------|
| Diacetone Alcohol | 123-42-2 | 15 - 40 Trade Secret * | 2-Pentanone, 4-hydroxy-4-methyl- |
| Methyl Ethyl Ketone | 78-93-3 | 15 - 40 Trade Secret * | 2-Butanone |

| | | | |
|-----------------------------|------------|------------------------|--|
| Tetrahydrofuran | 109-99-9 | 10 - 30 Trade Secret * | Furan, tetrahydro- |
| Epoxy Resin | 25036-25-3 | 3 - 7 Trade Secret * | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] |
| 1-Methoxy-2-Propanol | 107-98-2 | 1 - 5 Trade Secret * | 2-Propanol, 1-methoxy- |
| Acetone | 67-64-1 | 0 - 5 | 2-Propanone |
| Water | 7732-18-5 | < 5 | Water |
| Methyl Alcohol | 67-56-1 | 0.1 - 1 Trade Secret * | Methanol |
| Phenol-Formaldehyde Polymer | 28064-14-4 | 0.1 - 1 Trade Secret * | Phenol, polymer with formaldehyde, |
| Glycidyl Ether | | | glycidyl ether |
| Phenolic Polymer | 9003-35-4 | 0.1 - 1 Trade Secret * | Phenol, polymer with formaldehyde |
| Strontium Chromate (VI) | 7789-06-2 | 0.1 - 1 Trade Secret * | Chromic acid (H ₂ CrO ₄), strontium salt (1:1) |
| MIBK | 108-10-1 | 0 - 0.99 | 2-Pentanone, 4-methyl- |
| Toluene | 108-88-3 | 0 - 0.99 | No Data Available |
| Barium Chromate | 10294-40-3 | < 0.1 | Chromic acid (H ₂ CrO ₄), barium salt (1:1) |

*The concentration (exact or range) of this component 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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). 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. Unsuitable extinguishing media

None Determined

5.3. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|------------------|-------------------|
| Aldehydes | During Combustion |
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |

5.4. Special protection 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 vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

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 or professional 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/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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. Store locked up.

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 |
|-------------------------------------|------------|--------|----------------------------------|--------------------------------|
| Barium and soluble compounds, as Ba | 10294-40-3 | ACGIH | TWA(as Ba):0.5 mg/m ³ | |
| 1-Methoxy-2-Propanol | 107-98-2 | ACGIH | TWA:50 ppm;STEL:100 ppm | |
| MIBK | 108-10-1 | ACGIH | TWA:20 ppm;STEL:75 ppm | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | |
| Tetrahydrofuran | 109-99-9 | ACGIH | TWA:50 ppm;STEL:100 ppm | Danger of cutaneous absorption |
| Diacetone Alcohol | 123-42-2 | ACGIH | TWA:10 ppm | |
| Methyl Alcohol | 67-56-1 | ACGIH | TWA:200 ppm;STEL:250 ppm | Danger of cutaneous absorption |
| Acetone | 67-64-1 | ACGIH | TWA:250 ppm;STEL:500 ppm | |
| Methyl Ethyl Ketone | 78-93-3 | ACGIH | TWA:75 ppm;STEL:150 ppm | Danger of cutaneous absorption |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

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 vapours and particulates

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 |
| Colour | Yellow |
| Odour | Strong Solvent |
| Odour threshold | No Data Available |
| pH | No Data Available |
| Melting point/Freezing point | Not Applicable |
| Boiling point | >=66 °C |
| Flash Point | -14.4 °C [Test Method:Closed Cup] [Details:Tetrahydrofuran] |
| Evaporation rate | >=2 [Ref Std:ETHER=1] |
| Flammability | Flammable Liquid: Category 2. |
| Flammable Limits(LEL) | 1.8 % volume |
| Flammable Limits(UEL) | 11.8 % volume |
| Vapour Pressure | <=21,598.2 Pa [@ 25 °C] |
| Relative Vapour Density | 2.5 [Ref Std:AIR=1] |
| Density | 0.89 g/ml |
| Relative density | 0.89 [Ref Std:WATER=1] |
| Water solubility | Slight (less than 10%) |
| Solubility- non-water | No Data Available |
| Partition coefficient: n-octanol/ water | No Data Available |
| Autoignition temperature | 321 °C [Details:Tetrahydrofuran] |
| Decomposition temperature | No Data Available |
| Kinematic Viscosity | 11.2 mm ² /sec |
| Volatile Organic Compounds | 846 g/l [Test Method:calculated SCAQMD rule 443.1] |
| Percent volatile | 95 % |
| VOC Less H ₂ O & Exempt Solvents | 907 g/l [Test Method:calculated SCAQMD rule 443.1] |
| Molecular weight | 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

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

Strong acids

10.6. Hazardous decomposition products

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

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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:

Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of 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.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|-------------------------------|------------|--------------------------------|---|
| Chromium Hexavalent Compounds | 10294-40-3 | Known To Be Human Carcinogen. | National Toxicology Program Carcinogens |
| Chromium Hexavalent Compounds | 7789-06-2 | Known To Be Human Carcinogen. | National Toxicology Program Carcinogens |
| Chromium[VI] compounds | 10294-40-3 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Chromium[VI] compounds | 7789-06-2 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Hexavalent chromium compounds | 10294-40-3 | Cancer hazard | OSHA Carcinogens |
| Hexavalent chromium compounds | 7789-06-2 | Cancer hazard | OSHA Carcinogens |
| Methyl isobutyl ketone | 108-10-1 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Tetrahydrofuran | 109-99-9 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

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 >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 |
| Diacetone Alcohol | Dermal | Rabbit | LD50 13,645 mg/kg |
| Diacetone Alcohol | Inhalation-Vapor (4 hours) | Rat | LC50 > 7.6 mg/l |
| Diacetone Alcohol | Ingestion | Rat | LD50 3,002 mg/kg |
| Tetrahydrofuran | Dermal | Rat | LD50 > 2,000 mg/kg |
| Tetrahydrofuran | Inhalation-Vapor (4 hours) | Rat | LC50 54 mg/l |
| Tetrahydrofuran | Ingestion | Rat | LD50 1,650 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 |
| Epoxy Resin | Dermal | Rat | LD50 > 1,600 mg/kg |
| Epoxy Resin | Ingestion | Rat | LD50 > 1,000 mg/kg |
| 1-Methoxy-2-Propanol | Dermal | Rabbit | LD50 11,000-13,800 mg/kg |
| 1-Methoxy-2-Propanol | Inhalation-Vapor (4 hours) | Rat | LC50 56 mg/l |
| 1-Methoxy-2-Propanol | Ingestion | Rat | LD50 6,100 mg/kg |
| MIBK | Dermal | Rabbit | LD50 > 16,000 mg/kg |
| MIBK | Inhalation-Vapor (4 hours) | Rat | LC50 11 mg/l |
| MIBK | 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 |
| Phenol-Formaldehyde Polymer Glycidyl Ether | Dermal | Rabbit | LD50 > 6,000 mg/kg |
| Phenol-Formaldehyde Polymer Glycidyl Ether | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.7 mg/l |
| Phenol-Formaldehyde Polymer Glycidyl Ether | Ingestion | Rat | LD50 > 4,000 mg/kg |
| Strontium Chromate (VI) | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Strontium Chromate (VI) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.27 mg/l |
| Strontium Chromate (VI) | Ingestion | Rat | LD50 3,118 mg/kg |
| Methyl Alcohol | Dermal | | LD50 estimated to be 1,000 - 2,000 mg/kg |
| Methyl Alcohol | Inhalation-Vapor | | LC50 estimated to be 10 - 20 mg/l |
| Methyl Alcohol | Ingestion | | LD50 estimated to be 50 - 300 mg/kg |
| Phenolic Polymer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Phenolic Polymer | Ingestion | Rat | LD50 > 2,900 mg/kg |
| Barium Chromate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Barium Chromate | Ingestion | Rat | LD50 3,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Methyl Ethyl Ketone | Rabbit | Minimal irritation |
| Diacetone Alcohol | Rabbit | No significant irritation |
| Tetrahydrofuran | Rabbit | Minimal irritation |
| Acetone | Mouse | Minimal irritation |
| Epoxy Resin | Rabbit | Mild irritant |
| 1-Methoxy-2-Propanol | Not available | Minimal irritation |
| MIBK | Rabbit | Mild irritant |
| Toluene | Rabbit | Irritant |
| Phenol-Formaldehyde Polymer Glycidyl Ether | Rabbit | Minimal irritation |
| Strontium Chromate (VI) | Professional judgement | Mild irritant |
| Methyl Alcohol | Rabbit | Mild irritant |
| Phenolic Polymer | Human and animal | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------|-------------------|
| Methyl Ethyl Ketone | Rabbit | Severe irritant |
| Diacetone Alcohol | Rabbit | Severe irritant |
| Tetrahydrofuran | Rabbit | Corrosive |
| Acetone | Rabbit | Severe irritant |
| Epoxy Resin | Rabbit | Moderate irritant |
| 1-Methoxy-2-Propanol | Not available | Mild irritant |
| MIBK | Rabbit | Mild irritant |
| Toluene | Rabbit | Moderate irritant |
| Phenol-Formaldehyde Polymer Glycidyl Ether | Rabbit | Mild irritant |
| Strontium Chromate (VI) | Rabbit | Mild irritant |
| Methyl Alcohol | Rabbit | Moderate irritant |
| Phenolic Polymer | Human and animal | Moderate irritant |

| | | |
|--|--------|--|
| | animal | |
|--|--------|--|

Skin Sensitization

| Name | Species | Value |
|--|-------------------|----------------|
| Diacetone Alcohol | Guinea pig | Not classified |
| Tetrahydrofuran | Human and animal | Not classified |
| Epoxy Resin | Human and animal | Sensitizing |
| 1-Methoxy-2-Propanol | Guinea pig | Not classified |
| MIBK | Guinea pig | Not classified |
| Toluene | Guinea pig | Not classified |
| Phenol-Formaldehyde Polymer Glycidyl Ether | Human and animal | Sensitizing |
| Strontium Chromate (VI) | similar compounds | Sensitizing |
| Methyl Alcohol | Guinea pig | Not classified |
| Phenolic Polymer | Human and animal | Sensitizing |
| Barium Chromate | similar compounds | Not classified |

Respiratory Sensitization

| Name | Species | Value |
|------------------|---------|----------------|
| Epoxy Resin | Human | Not classified |
| Phenolic Polymer | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| Methyl Ethyl Ketone | In Vitro | Not mutagenic |
| Diacetone Alcohol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Tetrahydrofuran | In Vitro | Not mutagenic |
| Tetrahydrofuran | In vivo | Not mutagenic |
| Acetone | In vivo | Not mutagenic |
| Acetone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin | In vivo | Not mutagenic |
| Epoxy Resin | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1-Methoxy-2-Propanol | In Vitro | Not mutagenic |
| MIBK | In Vitro | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Phenol-Formaldehyde Polymer Glycidyl Ether | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Strontium Chromate (VI) | In vivo | Mutagenic |
| Methyl Alcohol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol | 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 |
| Tetrahydrofuran | Inhalation | Multiple animal species | Carcinogenic |
| Acetone | Not Specified | Multiple animal species | Not carcinogenic |
| Epoxy Resin | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| 1-Methoxy-2-Propanol | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| MIBK | 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 |
| Strontium Chromate (VI) | Not Specified | similar compounds | Carcinogenic |
| Methyl Alcohol | Inhalation | Multiple animal species | Not carcinogenic |
| Barium Chromate | Not Specified | similar compounds | Carcinogenic |

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 |
| Diacetone Alcohol | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | prematuring into lactation |
| Diacetone Alcohol | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 44 days |
| Diacetone Alcohol | Ingestion | Toxic to development | Rabbit | NOAEL 100 mg/kg/day | during gestation |
| Tetrahydrofuran | Ingestion | Not classified for female reproduction | Rat | NOAEL 782 mg/kg/day | 2 generation |
| Tetrahydrofuran | Ingestion | Not classified for male reproduction | Rat | NOAEL 782 mg/kg/day | 2 generation |
| Tetrahydrofuran | Ingestion | Not classified for development | Rat | NOAEL 305 mg/kg/day | 2 generation |
| Tetrahydrofuran | Inhalation | Not classified for development | Mouse | NOAEL 1.8 mg/l | 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 |
| Epoxy Resin | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Epoxy Resin | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Epoxy Resin | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |

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| Epoxy Resin | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 1-Methoxy-2-Propanol | Inhalation | Not classified for male reproduction | Rat | NOAEL 11 mg/l | 2 generation |
| 1-Methoxy-2-Propanol | Ingestion | Not classified for female reproduction | Mouse | NOAEL 3,328 mg/kg/day | 2 generation |
| 1-Methoxy-2-Propanol | Inhalation | Not classified for female reproduction | Rat | NOAEL 3.7 mg/l | 2 generation |
| 1-Methoxy-2-Propanol | Ingestion | Not classified for male reproduction | Mouse | NOAEL 3,328 mg/kg | 2 generation |
| 1-Methoxy-2-Propanol | Ingestion | Not classified for development | Rat | NOAEL 370 mg/kg | during gestation |
| 1-Methoxy-2-Propanol | Inhalation | Not classified for development | Rat | NOAEL 3.7 mg/l | 2 generation |
| MIBK | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| MIBK | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Inhalation | Not classified for male reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| MIBK | 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 |
| Strontium Chromate (VI) | Ingestion | Toxic to female reproduction | similar compounds | NOAEL Not available | |
| Strontium Chromate (VI) | Ingestion | Toxic to male reproduction | similar compounds | NOAEL Not available | |
| Strontium Chromate (VI) | Ingestion | Toxic to development | similar compounds | NOAEL Not available | |
| Methyl Alcohol | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,600 mg/kg/day | 21 days |
| Methyl Alcohol | Ingestion | Toxic to development | Mouse | LOAEL 4,000 mg/kg/day | during organogenesis |
| Methyl Alcohol | Inhalation | Toxic to development | Mouse | NOAEL 1.3 mg/l | during organogenesis |
| Barium Chromate | Not Specified | Not classified for reproduction and/or development | similar compounds | NOAEL Not available | pre mating & during gestation |

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 | |

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|-------------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| 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 |
| Diacetone Alcohol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| Diacetone Alcohol | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |
| Diacetone Alcohol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Diacetone Alcohol | Ingestion | blood | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 1,882 mg/kg | |
| Diacetone Alcohol | Ingestion | liver | Not classified | Rat | NOAEL 1,882 mg/kg | not applicable |
| Tetrahydrofuran | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Tetrahydrofuran | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL Not available | |
| Tetrahydrofuran | Inhalation | respiratory system | Not classified | Rabbit | NOAEL 2.9 mg/l | 4 hours |
| Tetrahydrofuran | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL 180 mg/kg | not applicable |
| 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 |
| Epoxy Resin | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 1-Methoxy-2-Propanol | Dermal | central nervous system depression | Not classified | Rabbit | NOAEL 1,800 mg/kg | 13 weeks |
| 1-Methoxy-2-Propanol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| MIBK | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | LOAEL 0.1 mg/l | 2 hours |
| MIBK | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| MIBK | Inhalation | vascular system | Not classified | Dog | NOAEL Not available | not available |
| MIBK | 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 |
| Strontium Chromate (VI) | Inhalation | respiratory irritation | May cause respiratory irritation | similar compoun | NOAEL Not available | |

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|-------------------------|------------|-----------------------------------|--|-------------------|---------------------|------------------------|
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| Strontium Chromate (VI) | Ingestion | kidney and/or bladder | Causes damage to organs | similar compounds | NOAEL Not available | |
| Methyl Alcohol | Inhalation | blindness | Causes damage to organs | Human | NOAEL Not available | occupational exposure |
| Methyl Alcohol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | not available |
| Methyl Alcohol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 6 hours |
| Methyl Alcohol | Ingestion | blindness | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |
| Methyl Alcohol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| Phenolic Polymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |

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 mg/l | 90 days |
| 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 |
| Diacetone Alcohol | Inhalation | liver | Not classified | Rat | NOAEL 4.5 mg/l | 6 weeks |
| Diacetone Alcohol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 4.5 mg/l | 6 weeks |
| Diacetone Alcohol | Ingestion | endocrine system | Not classified | Rat | NOAEL 600 mg/kg/day | 13 weeks |
| Diacetone Alcohol | Ingestion | liver | Not classified | Rat | NOAEL 600 mg/kg/day | 13 weeks |
| Diacetone Alcohol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 13 weeks |
| Diacetone Alcohol | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 600 mg/kg/day | 13 weeks |
| Diacetone Alcohol | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 13 weeks |
| Diacetone Alcohol | Ingestion | eyes | Not classified | Rat | NOAEL 600 mg/kg/day | 13 weeks |
| Tetrahydrofuran | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.6 mg/l | 12 weeks |
| Tetrahydrofuran | Inhalation | respiratory system | Not classified | Rat | NOAEL 2.9 mg/l | 12 weeks |

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|-----------------|------------|---------------------------------|--|------------|------------------------|---------------|
| Tetrahydrofuran | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.6 mg/l | 105 weeks |
| Tetrahydrofuran | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | 2 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 |
| Epoxy Resin | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Epoxy Resin | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Epoxy Resin | Ingestion | auditory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Epoxy Resin | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

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|----------------------|------------|-----------------------|--|-------------------------|-----------------------|------------------------|
| 1-Methoxy-2-Propanol | Dermal | kidney and/or bladder | Not classified | Rabbit | NOAEL 1,800 mg/kg/day | 13 weeks |
| 1-Methoxy-2-Propanol | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 1,000 mg/kg/day | 3 weeks |
| 1-Methoxy-2-Propanol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 3.7 mg/l | 13 weeks |
| 1-Methoxy-2-Propanol | Inhalation | liver | Not classified | Rat | NOAEL 11 mg/l | 13 weeks |
| 1-Methoxy-2-Propanol | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 2.2 mg/l | 10 days |
| 1-Methoxy-2-Propanol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 920 mg/kg/day | 13 weeks |
| 1-Methoxy-2-Propanol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 920 mg/kg/day | 13 weeks |
| MIBK | Inhalation | liver | Not classified | Rat | NOAEL 0.41 mg/l | 13 weeks |
| MIBK | Inhalation | heart | Not classified | Multiple animal species | NOAEL 0.8 mg/l | 2 weeks |
| MIBK | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 0.4 mg/l | 90 days |
| MIBK | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 4.1 mg/l | 14 weeks |
| MIBK | Inhalation | endocrine system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| MIBK | Inhalation | hematopoietic system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| MIBK | Inhalation | nervous system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 13 weeks |
| MIBK | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| MIBK | Ingestion | heart | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | immune system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | muscles | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | Ingestion | nervous system | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| MIBK | 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 |

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|-------------------------|------------|---------------------------------|--|-------------------------|-----------------------|------------------------|
| Toluene | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Toluene | Inhalation | heart | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | liver | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Toluene | Inhalation | hematopoietic system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | liver | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| Strontium Chromate (VI) | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | similar compounds | NOAEL Not available | |
| Strontium Chromate (VI) | Ingestion | kidney and/or bladder | May cause damage to organs through prolonged or repeated exposure | similar compounds | NOAEL Not available | |
| Methyl Alcohol | Inhalation | liver | Not classified | Rat | NOAEL 6.55 mg/l | 4 weeks |
| Methyl Alcohol | Inhalation | respiratory system | Not classified | Rat | NOAEL 13.1 mg/l | 6 weeks |
| Methyl Alcohol | Ingestion | liver | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Methyl Alcohol | Ingestion | nervous system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 90 days |
| Phenolic Polymer | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Barium Chromate | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | similar compounds | NOAEL Not available | occupational exposure |

Aspiration Hazard

| Name | Value |
|---------|--|
| MIBK | 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

No data available.

SECTION 13: Disposal considerations**13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste 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.

SECTION 14: Transport Information

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

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

SECTION 16: Other information

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

Health: 3 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.

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