# 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™ Urethane Adhesive DP620NS Black and Urethane Adhesive 620NS Black, Part B

**Product Identification Numbers**
62-2645-8530-8 62-2645-8531-6 62-2645-9530-7 62-2645-9531-5

### 1.2. Recommended use and restrictions on use

**Intended Use**
Structural adhesive

**Restrictions on use**
Not applicable

### 1.3. Supplier's details

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

### 1.4. Emergency telephone number
Medical Emergency Telephone:1-800-3M HELPS / 1800 364 3577

Formerly known as DYNAMix™ Sheet Metal Bonding Adhesive 6188-1.

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture
Skin Corrosion/Irritation: Category 1C.
Serious Eye Damage/Irritation: Category 1.
Skin Sensitizer: Category 1A.
Health Hazards Not Otherwise Classified - Category 1

### 2.2. Label elements
**Signal word**

Danger

**Symbols**
Corrosion |Exclamation mark |

**Pictograms**

**Hazard Statements**

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause chemical gastrointestinal burns.

**Precautionary statements**

**Prevention:**
Do not breathe fumes. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection, and face protection.

**Response:**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.

**Storage:**
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.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|---|---|---|---|
| Polyether Polyol | 9082-00-2 | 20 - 50 | Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) |
| Polyol | Trade Secret | 15 - 40 | Not Applicable |
| 1,4-Cyclohexanedimethanol | 105-08-8 | 5 - 10 Trade Secret * | 1,4-Cyclohexanedimethanol |
| Amorphous Silica | 7631-86-9 | 1 - 10 | Silica |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | 1 - 7 | Siloxanes and Silicones, di-Me, reaction products with silica |
| Aluminum Oxide | 1344-28-1 | 0.1 - 5 | Aluminum oxide (Al2O3) |
| Isophorone Diamine | 2855-13-2 | 1 - 5 Trade Secret * | Cyclohexanemethanamine, 5-amino-1,3,3- |

| | | | |
|---|---|---|---|
| | | | trimethyl- |
| Potassium Oxide | 12136-45-7 | 0.5 - 5 Trade Secret * | Potassium oxide (K2O) |
| Calcium Oxide | 1305-78-8 | 0.1 - 1.5 Trade Secret * | Calcium oxide (CaO) |
| Sodium Oxide | 1313-59-3 | 0.1 - 1.5 Trade Secret * | Sodium oxide (Na2O) |
| m-xylene-.alpha.alpha'.-diamine | 1477-55-0 | 0.1 - 1 Trade Secret * | 1,3-Benzenedimethanamine |
| BHT | 128-37-0 | < 0.5 | Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- |

Polyol is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

*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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**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. Do not induce vomiting. Get immediate medical attention.

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). 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).

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Unsuitable extinguishing media**
None Determined

**5.3. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Oxides of Nitrogen | During Combustion |

**5.4. Special protection actions for fire-fighters**
Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). 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. 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.

**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. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
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.)

**7.2. Conditions for safe storage including any incompatibilities**
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 |
|---|---|---|---|---|
| BHT | 128-37-0 | ACGIH | TWA(inhalable fraction and vapor):2 mg/m3 | |
| Calcium Oxide | 1305-78-8 | ACGIH | TWA:2 mg/m3 | |
| Aluminum metal and insoluble compounds, respirable fraction | 1344-28-1 | ACGIH | TWA(respirable fraction):1 mg/m3 | |

| | | | | |
|---|---|---|---|---|
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 1344-28-1 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 1344-28-1 | ACGIH | TWA(respirable particles):3 mg/m3 | |
| m-xylene-.alpha.alpha'.-diamine | 1477-55-0 | ACGIH | CEIL:0.018 ppm | Danger of cutaneous absorption |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles | 7631-86-9 | ACGIH | TWA(inhalable particulates):10 mg/m3 | |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 7631-86-9 | ACGIH | TWA(respirable particles):3 mg/m3 | |

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.

**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

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 |
| **Specific Physical Form:** | Viscous |
| **Colour** | Milky White |
| **Odour** | Slight Ammoniacal |
| **Odour threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *No Data Available* |
| **Boiling point** | >=198.9 ºC |
| **Flash Point** | >=143.3 ºC [*Test Method:*Tagliabue Closed Cup] |
| **Evaporation rate** | <=1 [*Ref Std:*WATER=1] |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapour Pressure** | *Not Applicable* |
| **Relative Vapour Density** | >=1 [*Ref Std:*AIR=1] |
| **Density** | 1.054 g/ml |
| **Relative density** | 1 - 1.2 [*Ref Std:*WATER=1] |
| **Water solubility** | Negligible |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *Not Applicable* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | 4,269 mm2/sec |
| **Volatile Organic Compounds** | *No Data Available* |
| **Percent volatile** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A] |
| **VOC Less H2O & Exempt Solvents** | 32 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*as supplied] |
| **VOC Less H2O & Exempt Solvents** | 0 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A] |
| **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**

None known.

**10.5. Incompatible materials**
Strong acids
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:**
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**
Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**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 Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

**Additional Information:**
Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

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

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Polyether Polyol | Dermal | similar compounds | LD50 > 2,000 mg/kg |

| | | | |
|---|---|---|---|
| Polyether Polyol | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 3.2 mg/l |
| Polyether Polyol | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| Polyol | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polyol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| Polyol | Ingestion | Rat | LD50 4,600 mg/kg |
| 1,4-Cyclohexanedimethanol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1,4-Cyclohexanedimethanol | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Aluminum Oxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Aluminum Oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.3 mg/l |
| Aluminum Oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Isophorone Diamine | Dermal | Rat | LD50 > 2,000 mg/kg |
| Isophorone Diamine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 estimated to be 1 - 5 mg/l |
| Isophorone Diamine | Ingestion | Rat | LD50 1,030 mg/kg |
| Sodium Oxide | Ingestion | Professional judgement | LD50 estimated to be 50 - 300 mg/kg |
| Calcium Oxide | Ingestion | Rat | LD50 > 2,500 mg/kg |
| Calcium Oxide | Dermal | similar compounds | LD50 > 2,500 mg/kg |
| m-xylene-.alpha.alpha'.-diamine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| m-xylene-.alpha.alpha'.-diamine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 1.2 mg/l |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | Rat | LD50 980 mg/kg |
| BHT | Dermal | Rat | LD50 > 2,000 mg/kg |
| BHT | Ingestion | Rat | LD50 > 2,930 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Polyether Polyol | similar compounds | Minimal irritation |
| Polyol | Rabbit | No significant irritation |
| 1,4-Cyclohexanedimethanol | Rabbit | No significant irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| Aluminum Oxide | Rabbit | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| Isophorone Diamine | official classification | Corrosive |
| Potassium Oxide | official classifica | Corrosive |

| | | |
|---|---|---|
| | tion | |
| Calcium Oxide | Human | Corrosive |
| Sodium Oxide | similar compoun ds | Corrosive |
| m-xylene-.alpha.alpha'.-diamine | Rat | Corrosive |
| BHT | Human and animal | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Polyether Polyol | similar compoun ds | Mild irritant |
| Polyol | Rabbit | Mild irritant |
| 1,4-Cyclohexanedimethanol | Rabbit | Corrosive |
| Amorphous Silica | Rabbit | No significant irritation |
| Aluminum Oxide | Rabbit | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| Isophorone Diamine | Rabbit | Corrosive |
| Potassium Oxide | similar health hazards | Corrosive |
| Calcium Oxide | Rabbit | Corrosive |
| Sodium Oxide | similar compoun ds | Corrosive |
| m-xylene-.alpha.alpha'.-diamine | Rabbit | Corrosive |
| BHT | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Polyether Polyol | similar compoun ds | Not classified |
| 1,4-Cyclohexanedimethanol | Guinea pig | Not classified |
| Amorphous Silica | Human and animal | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica | Human and animal | Not classified |
| Isophorone Diamine | Guinea pig | Sensitizing |
| m-xylene-.alpha.alpha'.-diamine | Guinea pig | Sensitizing |
| BHT | Human | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Polyether Polyol | In Vitro | Not mutagenic |
| 1,4-Cyclohexanedimethanol | In Vitro | Not mutagenic |
| 1,4-Cyclohexanedimethanol | In vivo | Not mutagenic |
| Amorphous Silica | In Vitro | Not mutagenic |
| Aluminum Oxide | In Vitro | Not mutagenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic |
| Isophorone Diamine | In Vitro | Not mutagenic |

| | | |
|---|---|---|
| Calcium Oxide | In Vitro | Not mutagenic |
| m-xylene-.alpha.alpha'.-diamine | In Vitro | Not mutagenic |
| m-xylene-.alpha.alpha'.-diamine | In vivo | Not mutagenic |
| BHT | In Vitro | Not mutagenic |
| BHT | In vivo | Not mutagenic |

### Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Amorphous Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Aluminum Oxide | Inhalation | Rat | Not carcinogenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| BHT | Ingestion | Multiple animal species | 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 |
|---|---|---|---|---|---|
| 1,4-Cyclohexanedimethanol | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,360 mg/kg/day | premating into lactation |
| 1,4-Cyclohexanedimethanol | Ingestion | Not classified for male reproduction | Rat | NOAEL 479 mg/kg/day | 91 days |
| 1,4-Cyclohexanedimethanol | Ingestion | Not classified for development | Rat | NOAEL 854 mg/kg/day | premating into lactation |
| Amorphous Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Isophorone Diamine | Ingestion | Not classified for development | Rat | NOAEL 250 mg/kg/day | during gestation |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 450 mg/kg/day | premating into lactation |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 450 mg/kg/day | 48 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | Not classified for development | Rat | NOAEL 450 mg/kg/day | premating into lactation |
| BHT | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| BHT | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| BHT | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 1,4-Cyclohexanedimethanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Isophorone Diamine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL not available | |
| Potassium Oxide | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |
| Calcium Oxide | Inhalation | respiratory irritation | May cause respiratory irritation | Not available | NOAEL Not available | occupational exposure |
| Sodium Oxide | Inhalation | respiratory irritation | May cause respiratory irritation | Professional judgement | NOAEL Not available | |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not avaliable | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 1,4-Cyclohexanedimethanol | Ingestion | heart | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | immune system | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | endocrine system | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | liver | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | nervous system | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| 1,4-Cyclohexanedimethanol | Ingestion | eyes | Not classified | Rat | NOAEL 861 mg/kg/day | 13 weeks |
| Amorphous Silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Amorphous Silica | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Aluminum Oxide | Inhalation | pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Aluminum Oxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Isophorone Diamine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 160 mg/kg/day | 13 weeks |
| Isophorone Diamine | Ingestion | liver | Not classified | Rat | NOAEL 160 mg/kg/day | 13 weeks |
| Isophorone Diamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 160 mg/kg/day | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.005 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | heart | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | skin | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.- | Inhalation | bone, teeth, nails, | Not classified | Rat | NOAEL 0.03 | 13 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| diamine | | and/or hair | | | mg/l | |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | liver | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | immune system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | muscles | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | nervous system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | eyes | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Inhalation | vascular system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | endocrine system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 28 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | heart | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | liver | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | immune system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| m-xylene-.alpha.alpha'.-diamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| BHT | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| BHT | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| BHT | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| BHT | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| BHT | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |

**Aspiration Hazard**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel

during incineration processes. 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 the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. 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:** 1 **Instability:** 1 **Special Hazards:** None

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

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