



## Material Safety Data Sheet

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**PRODUCT NAME:** 3M Scotchkote Urethane Elastomer 80XRG 539 Kit  
**MANUFACTURER:** 3M  
**DIVISION:** 3M United Kingdom  
Infrastructure Protection Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

**EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)**

**Issue Date:** 05/22/14  
**Supersedes Date:** 04/30/14

**Document Group:** 30-4026-8

### ID Number(s):

GR-2001-4010-5

**This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:**

29-1401-8, 28-9415-2, 28-4001-5, 28-8163-9

Revision Changes: Not Applicable

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**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**



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### SECTION 1: Identification

#### 1.1. Product identifier

3M Scotchkote Urethane Elastomer 60RG 537 Catalyst

#### Product Identification Numbers

GR-2001-0974-6  
4010024621

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Catalyst., Catalyst for Urethane Elastomer 075 Primer.

#### 1.3. Supplier's details

|                      |  |
|----------------------|--|
| <b>MANUFACTURER:</b> | 3M   |
| <b>DIVISION:</b>     | 3M United Kingdom<br>Electrical Markets Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA          |
| <b>Telephone:</b>    | 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 1.  
Skin Corrosion/Irritation: Category 2.  
Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Corrosion | Exclamation mark |

**Pictograms****Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye damage.

Causes skin irritation.

May cause drowsiness or dizziness.

**Precautionary Statements****Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

**Response:**

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation occurs: Get medical advice/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 container tightly closed.

Keep cool.

Store locked up.

**Disposal:**

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

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

**SECTION 3: Composition/information on ingredients**

| Ingredient    | C.A.S. No. | % by Wt                |
|---------------|------------|------------------------|
| ETHYL ACETATE | 141-78-6   | 90 - 95 Trade Secret * |

|                               |            |                      |
|-------------------------------|------------|----------------------|
| BIS(DIMETHYLAMINOETHYL) ETHER | 3033-62-3  | 1 - 5 Trade Secret * |
| DIPROPYLENE GLYCOL            | 25265-71-8 | 1 - 5 Trade Secret * |

\*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 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

See Section 11.1. Information on toxicological effects.

### 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

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

### 5.3. Special protective actions for fire-fighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. 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 |
|-------------------------------|------------|--------|----------------------------|---------------------|
| ETHYL ACETATE                 | 141-78-6   | ACGIH  | TWA:400 ppm                |                     |
| ETHYL ACETATE                 | 141-78-6   | OSHA   | TWA:1400 mg/m3(400 ppm)    |                     |
| BIS(DIMETHYLAMINOETHYL) ETHER | 3033-62-3  | ACGIH  | TWA:0.05 ppm;STEL:0.15 ppm | SKIN                |

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**

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. Provide local exhaust ventilation at transfer points. Provide appropriate local exhaust ventilation on open containers.

**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

**Respiratory protection**

Wear respiratory protection if ventilation is inadequate to prevent overexposure. 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:

Full facepiece air-purifying respirator suitable for organic vapors

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**

|  |  |
|--|--|
| <b>General Physical Form:</b>                  | Liquid                                   |
| <b>Odor, Color, Grade:</b>                     | Etherial odor; Clear color               |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                 |
| <b>pH</b>                                      | <i>No Data Available</i>                 |
| <b>Melting point</b>                           | <i>No Data Available</i>                 |
| <b>Boiling Point</b>                           | $\geq 77$ °C                             |
| <b>Flash Point</b>                             | -4 °C [ <i>Test Method: Closed Cup</i> ] |
| <b>Evaporation rate</b>                        | 6 [ <i>Ref Std: BUOAC=1</i> ]            |
| <b>Flammability (solid, gas)</b>               | Not Applicable                           |
| <b>Flammable Limits(LEL)</b>                   | 2.1 % volume                             |
| <b>Flammable Limits(UEL)</b>                   | 11.5 % volume                            |
| <b>Vapor Pressure</b>                          | 76 mmHg [ <i>@ 20 °C</i> ]               |
| <b>Vapor Density</b>                           | 3 [ <i>Ref Std: AIR=1</i> ]              |
| <b>Density</b>                                 | 0.88 g/ml                                |
| <b>Specific Gravity</b>                        | 0.88 [ <i>Ref Std: WATER=1</i> ]         |
| <b>Solubility in Water</b>                     | Negligible                               |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                 |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                 |
| <b>Autoignition temperature</b>                | 425 °C                                   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                 |

Viscosity  
Volatile Organic Compounds

1 centipoise  
890.682 g/l [*Test Method*:tested per EPA method 24] [*Details*:For catalyst]

## 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

Alkali and alkaline earth metals  
Strong acids  
Strong oxidizing agents

### 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:

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

May cause target organ effects after inhalation. May cause additional health effects (see below).

#### Skin Contact:

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



**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:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause target organ effects after ingestion. 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.

**Toxicological Data**

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

**Acute Toxicity**

| Name                          | Route                          | Species | Value  |
|-------------------------------|--------------------------------|---------|--|
| Overall product               | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg |
| Overall product               | Inhalation-Vapor(4 hr)         |         | No data available; calculated ATE >50 mg/l     |
| Overall product               | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| ETHYL ACETATE                 | Dermal                         | Rabbit  | LD50 > 18,000 mg/kg                            |
| ETHYL ACETATE                 | Inhalation-Vapor (4 hours)     | Rat     | LC50 70.5 mg/l                                 |
| ETHYL ACETATE                 | Ingestion                      | Rat     | LD50 5,620 mg/kg                               |
| BIS(DIMETHYLAMINOETHYL) ETHER | Dermal                         | Rabbit  | LD50 238 mg/kg                                 |
| BIS(DIMETHYLAMINOETHYL) ETHER | Inhalation-Vapor (4 hours)     | Rat     | LC50 2.2 mg/l                                  |
| BIS(DIMETHYLAMINOETHYL) ETHER | Ingestion                      | Rat     | LD50 570 mg/kg                                 |
| DIPROPYLENE GLYCOL            | Dermal                         | Rabbit  | LD50 > 5,010 mg/kg                             |
| DIPROPYLENE GLYCOL            | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 2.34 mg/l                               |
| DIPROPYLENE GLYCOL            | Ingestion                      | Rat     | LD50 > 5,010 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name               | Species | Value                     |
|--------------------|---------|---------------------------|
| ETHYL ACETATE      | Rabbit  | Minimal irritation        |
| DIPROPYLENE GLYCOL | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name               | Species | Value                     |
|--------------------|---------|---------------------------|
| ETHYL ACETATE      | Rabbit  | Mild irritant             |
| DIPROPYLENE GLYCOL | Rabbit  | No significant irritation |

**Skin Sensitization**

| Name          | Species    | Value          |
|---------------|------------|----------------|
| ETHYL ACETATE | Guinea pig | Not classified |

|                    |            |                |
|--------------------|------------|----------------|
| DIPROPYLENE GLYCOL | Guinea pig | 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         |
|--------------------|----------|---------------|
| ETHYL ACETATE      | In Vitro | Not mutagenic |
| ETHYL ACETATE      | In vivo  | Not mutagenic |
| DIPROPYLENE GLYCOL | In Vitro | Not mutagenic |
| DIPROPYLENE GLYCOL | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name               | Route     | Species                 | Value            |
|--------------------|-----------|-------------------------|------------------|
| DIPROPYLENE GLYCOL | Ingestion | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name               | Route     | Value                          | Species | Test Result           | Exposure Duration    |
|--------------------|-----------|--------------------------------|---------|-----------------------|----------------------|
| DIPROPYLENE GLYCOL | Ingestion | Not classified for development | Rat     | NOAEL 5,000 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name               | Route      | Target Organ(s)                                      | Value  | Species | Test Result           | Exposure Duration |
|--------------------|------------|--|--|---------|-----------------------|-------------------|
| ETHYL ACETATE      | Inhalation | endocrine system   liver   nervous system            | Not classified   | Rat     | NOAEL 0.043 mg/l      | 90 days           |
| ETHYL ACETATE      | Inhalation | hematopoietic system                                 | Not classified   | Rabbit  | LOAEL 16 mg/l         | 40 days           |
| ETHYL ACETATE      | Ingestion  | hematopoietic system   liver   kidney and/or bladder | Not classified   | Rat     | NOAEL 3,600 mg/kg/day | 90 days           |
| DIPROPYLENE GLYCOL | Ingestion  | respiratory system                                   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 470 mg/kg/day   | 105 weeks         |
| DIPROPYLENE GLYCOL | Ingestion  | heart  | Not classified   | Rat     | NOAEL 470 mg/kg/day   | 105 weeks         |
| DIPROPYLENE GLYCOL | Ingestion  | endocrine system   liver                             | Not classified   | Rat     | NOAEL 3,040 mg/kg/day | 105 weeks         |
| DIPROPYLENE        | Ingestion  | kidney and/or  | Not classified   | Rat     | NOAEL 115             | 105 weeks         |

|                       |           |  |                |     |                             |           |
|-----------------------|-----------|--|----------------|-----|-----------------------------|-----------|
| GLYCOL                |           | bladder  |                |     | mg/kg/day                   |           |
| DIPROPYLENE<br>GLYCOL | Ingestion | skin   bone, teeth,<br>nails, and/or hair  <br>hematopoietic<br>system   immune<br>system   nervous<br>system   vascular<br>system | Not classified | Rat | NOAEL<br>3,040<br>mg/kg/day | 105 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**

**Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

**15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

**Physical Hazards**

Flammable (gases, aerosols, liquids, or solids)

**Health Hazards**

Serious eye damage or eye irritation  
Skin Corrosion or 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 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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. 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 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: 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.

**HMIS Hazard Classification**

**Health: 3 Flammability: 3 Physical Hazard: 0 Personal Protection: X - See PPE section.**

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
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### SECTION 1: Identification

#### 1.1. Product identifier

3M Scotchkote Urethane Elastomer 80XRG 539 Part B

#### Product Identification Numbers

GR-2001-4008-9

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Coating, Elastomeric repair compound.

#### 1.3. Supplier's details

|                      |  |
|----------------------|--|
| <b>MANUFACTURER:</b> | 3M   |
| <b>DIVISION:</b>     | 3M United Kingdom<br>Electrical Markets Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA          |
| <b>Telephone:</b>    | 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

Respiratory Sensitizer: Category 1A.

Skin Sensitizer: Category 1A.

Carcinogenicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Health Hazard |

##### Pictograms

**Hazard Statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.  
 May cause cancer.

**Precautionary Statements****Prevention:**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 In case of inadequate ventilation wear respiratory protection.  
 Wear protective gloves.  
 Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
 IF ON SKIN: Wash with plenty of soap and water.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 IF exposed or concerned: Get medical advice/attention.

**Storage:**

Store locked up.

**Disposal:**

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

### SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No.    | % by Wt                 |
|--|---------------|-------------------------|
| POLYPROPYLENE GLYCOL-TOLUENE<br>DIISOCYANATE POLYMER | Trade Secret* | 80 - 100 Trade Secret * |
| TOLUENE DIISOCYANATE                                 | 26471-62-5    | 0 - 0.1 Trade Secret *  |

\*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:**

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

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

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

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products**

Substance

Carbon monoxide  
Carbon dioxide  
Hydrogen Cyanide  
Oxides of Nitrogen

Condition

During Combustion  
During Combustion  
During Combustion  
During Combustion

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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.) Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient           | C.A.S. No. | Agency | Limit type   | Additional Comments  |
|----------------------|------------|--------|--|--|
| TOLUENE DIISOCYANATE | 26471-62-5 | ACGIH  | TWA(inhalable fraction and vapor):0.001 ppm;STEL(inhalable fraction and vapor):0.005 ppm | SKIN; Resp+Dermal sensitizer, A4: Not class. as human carcin |

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

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

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

##### Eye/face protection

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

Safety Glasses with side shields

##### 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: Butyl Rubber

Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber  
Apron - polymer laminate

### 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

|  |  |
|--|--|
| <b>General Physical Form:</b>                  | Liquid   |
| <b>Specific Physical Form:</b>                 | Viscous liquid   |
| <b>Odor, Color, Grade:</b>                     | Odorless; Yellowish color  |
| <b>Odor threshold</b>                          | <i>No Data Available</i>   |
| <b>pH</b>                                      | <i>Not Applicable</i>  |
| <b>Melting point</b>                           | <i>Not Applicable</i>  |
| <b>Boiling Point</b>                           | >=250 °C   |
| <b>Flash Point</b>                             | >=160 °C [ <i>Test Method</i> :Closed Cup]   |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>   |
| <b>Flammability (solid, gas)</b>               | Not Applicable   |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>   |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>   |
| <b>Vapor Pressure</b>                          | <=1 mmHg [@ 21 °C]   |
| <b>Vapor Density</b>                           | <i>No Data Available</i>   |
| <b>Density</b>                                 | 1.110 g/ml   |
| <b>Specific Gravity</b>                        | 1.110 [ <i>Ref Std</i> :WATER=1]   |
| <b>Solubility in Water</b>                     | Negligible   |
| <b>Solubility- non-water</b>                   | Nil  |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>   |
| <b>Autoignition temperature</b>                | >=400 °C   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>   |
| <b>Viscosity</b>                               | <i>No Data Available</i>   |
| <b>Volatile Organic Compounds</b>              | 9 - 35 g/l [ <i>Test Method</i> :tested per EPA method 24] [ <i>Details</i> :EU Definition (Part A and B mix)] |

## 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**

Accelerators

Alcohols

Amines

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

Strong acids

Strong bases

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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

**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:**

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

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Additional Health Effects:****Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| Ingredient           | CAS No.    | Class Description             | Regulation                                  |
|----------------------|------------|-------------------------------|---|
| TOLUENE DIISOCYANATE | 26471-62-5 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| TOLUENE DIISOCYANATE | 26471-62-5 | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |

**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 >50 mg/l     |
| Overall product      | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| TOLUENE DIISOCYANATE | Inhalation-Vapor (4 hours)     | Mouse   | LC50 0.12 mg/l                                 |
| TOLUENE DIISOCYANATE | Dermal                         | Rabbit  | LD50 > 9,400 mg/kg                             |
| TOLUENE DIISOCYANATE | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.35 mg/l                                 |
| TOLUENE DIISOCYANATE | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                 | Species | Value    |
|----------------------|---------|----------|
| TOLUENE DIISOCYANATE | Rabbit  | Irritant |

**Serious Eye Damage/Irritation**

| Name                 | Species | Value     |
|----------------------|---------|-----------|
| TOLUENE DIISOCYANATE | Rabbit  | Corrosive |

**Skin Sensitization**

| Name                 | Species          | Value       |
|----------------------|------------------|-------------|
| TOLUENE DIISOCYANATE | Human and animal | Sensitizing |

**Respiratory Sensitization**

| Name                 | Species | Value       |
|----------------------|---------|-------------|
| TOLUENE DIISOCYANATE | Human   | Sensitizing |

**Germ Cell Mutagenicity**

| Name                 | Route    | Value  |
|----------------------|----------|--|
| TOLUENE DIISOCYANATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                 | Route      | Species                 | Value            |
|----------------------|------------|-------------------------|------------------|
| TOLUENE DIISOCYANATE | Inhalation | Human and animal        | Not carcinogenic |
| TOLUENE DIISOCYANATE | Ingestion  | Multiple animal species | Carcinogenic     |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name                 | Route      | Value                                  | Species | Test Result      | Exposure Duration    |
|----------------------|------------|--|---------|------------------|----------------------|
| TOLUENE DIISOCYANATE | Inhalation | Not classified for female reproduction | Rat     | NOAEL 0.002 mg/l | 2 generation         |
| TOLUENE DIISOCYANATE | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 0.002 mg/l | 2 generation         |
| TOLUENE DIISOCYANATE | Inhalation | Not classified for development         | Rat     | NOAEL 0.004 mg/l | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name                 | Route      | Target Organ(s)        | Value                            | Species | Test Result         | Exposure Duration     |
|----------------------|------------|------------------------|----------------------------------|---------|---------------------|-----------------------|
| TOLUENE DIISOCYANATE | Inhalation | respiratory irritation | May cause respiratory irritation | Human   | NOAEL Not available | occupational exposure |

**Specific Target Organ Toxicity - repeated exposure**

| Name                 | Route      | Target Organ(s)    | Value  | Species | Test Result  | Exposure Duration     |
|----------------------|------------|--------------------|--|---------|--------------|-----------------------|
| TOLUENE DIISOCYANATE | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL 0 mg/l | occupational exposure |

**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****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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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.

**EPA Hazardous Waste Number (RCRA):** Not regulated

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

**15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

**Physical Hazards**

Not applicable

**Health Hazards**

Carcinogenicity

Respiratory or Skin Sensitization

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

| <u>Ingredient</u>                                       | <u>C.A.S. No</u> | <u>% by Wt</u>       |
|---|------------------|----------------------|
| TOLUENE DIISOCYANATE                                    | 26471-62-5       | Trade Secret 0 - 0.1 |
| TOLUENE DIISOCYANATE (Benzene, 1,3-diisocyanatomethyl-) | 26471-62-5       | 0 - 0.1              |

**This material contains a chemical which requires export notification under TSCA Section 12[b]:**

| <u>Ingredient (Category if applicable)</u>              | <u>C.A.S. No</u> | <u>Regulation</u>   | <u>Status</u> |
|---|------------------|---|---------------|
| TOLUENE DIISOCYANATE (Benzene, 1,3-diisocyanatomethyl-) | 26471-62-5       | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed      |
| TOLUENE DIISOCYANATE                                    | 26471-62-5       | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Proposed      |

**This material contains a chemical subject to a proposed EPA Significant New Use Rule (TSCA Section 5)**

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Reference</u> |
|--|------------------|------------------|
| TOLUENE DIISOCYANATE                       | 26471-62-5       | 80 FR 2068       |

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. 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 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:** 3 **Flammability:** 1 **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.

### HMIS Hazard Classification

**Health:** \*3 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
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### SECTION 1: Identification

#### 1.1. Product identifier

3M Scotchkote Urethane Elastomer 80XRG 539 Part A

#### Product Identification Numbers

GR-2001-4009-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Coating, Elastomeric repair compound.

#### 1.3. Supplier's details

|                      |  |
|----------------------|--|
| <b>MANUFACTURER:</b> | 3M   |
| <b>DIVISION:</b>     | 3M United Kingdom<br>Electrical Markets Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA          |
| <b>Telephone:</b>    | 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

Serious Eye Damage/Irritation: Category 2A.

Carcinogenicity: Category 2.

Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms



**Hazard Statements**

Causes serious eye irritation.  
Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure:  
liver |

endocrine system |

**Precautionary Statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear eye/face protection.  
Wear protective gloves.  
Do not eat, drink or smoke when using this product.  
Wash thoroughly after handling.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF exposed or concerned: Get medical advice/attention.

**Storage:**

Store locked up.

**Disposal:**

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

**SECTION 3: Composition/information on ingredients**

| Ingredient   | C.A.S. No.  | % by Wt                |
|--|-------------|------------------------|
| 1,2-BENZENEDICARBOXYLIC ACID, BENZYL c7-9-BRANCHED AND LINEAR ALKYL ESTERS | 68515-40-2  | 35 - 45 Trade Secret * |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                                     | 25791-96-2  | 25 - 35 Trade Secret * |
| DIETHYLMETHYLBENZENEDIAMINE  | 68479-98-1  | 5 - 15 Trade Secret *  |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-HYDRO-.OMEGA.-HYDROXY-           | 25322-69-4  | 1 - 10 Trade Secret *  |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE                        | 112945-52-5 | 1 - 10 Trade Secret *  |
| DIISONONYL PHTHALATE   | 28553-12-0  | 1 - 5 Trade Secret *   |
| ZEOLITES   | 1318-02-1   | 1 - 5 Trade Secret *   |
| CARBON BLACK   | 1333-86-4   | <2 Trade Secret *      |

|   |            |                    |
|---|------------|--------------------|
| BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE | 68411-46-1 | < 1 Trade Secret * |
| BISMUTH TRINEODECANOATE   | 34364-26-6 | < 1 Trade Secret * |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE                        | 64742-46-7 | < 1 Trade Secret * |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

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

**Eye Contact:**

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

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

**Substance**

- Aldehydes
- Hydrocarbons
- Carbon monoxide
- Carbon dioxide
- Oxides of Nitrogen

**Condition**

- During Combustion
- During Combustion
- During Combustion
- During Combustion
- During Combustion

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**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**

For industrial or professional use only. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**

Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

**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            |
|--|-------------|--------|--|--------------------------------|
| SILICA, AMORPHOUS  | 112945-52-5 | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |                                |
| Aluminum, insoluble compounds                                    | 1318-02-1   | ACGIH  | TWA(respirable fraction):1 mg/m3                                 | A4: Not class. as human carcin |
| CARBON BLACK   | 1333-86-4   | ACGIH  | TWA(inhalable fraction):3 mg/m3                                  | A3: Confirmed animal carcin.   |
| CARBON BLACK   | 1333-86-4   | OSHA   | TWA:3.5 mg/m3  |                                |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-HYDRO.-OMEGA.-HYDROXY- | 25322-69-4  | AIHA   | TWA(as aerosol):10 mg/m3   |                                |
| Paraffin oil   | 64742-46-7  | OSHA   | TWA(as mist):5 mg/m3   |                                |

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

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

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Indirect Vented Goggles

#### Skin/hand protection

No chemical protective gloves are required.

#### 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

|  |   |
|--|---|
| <b>General Physical Form:</b>                  | Liquid  |
| <b>Specific Physical Form:</b>                 | Paste   |
| <b>Odor, Color, Grade:</b>                     | Slight odor; Black color  |
| <b>Odor threshold</b>                          | <i>No Data Available</i>  |
| <b>pH</b>                                      | <i>No Data Available</i>  |
| <b>Melting point</b>                           | <i>Not Applicable</i>   |
| <b>Boiling Point</b>                           | $\geq 100$ °C   |
| <b>Flash Point</b>                             | 100 °C [ <i>Test Method: Closed Cup</i> ]   |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>  |
| <b>Flammability (solid, gas)</b>               | Not Applicable  |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>  |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>  |
| <b>Vapor Pressure</b>                          | $\leq 1$ mmHg [ <i>@ 20 °C</i> ]  |
| <b>Vapor Density</b>                           | <i>No Data Available</i>  |
| <b>Density</b>                                 | 1.07 g/ml   |
| <b>Specific Gravity</b>                        | 1.07 [ <i>Ref Std: WATER=1</i> ]  |
| <b>Solubility in Water</b>                     | Negligible  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>  |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>  |
| <b>Autoignition temperature</b>                | $\geq 400$ °C   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>  |
| <b>Viscosity</b>                               | <i>No Data Available</i>  |
| <b>Volatile Organic Compounds</b>              | 9.361 g/l [ <i>Test Method: tested per EPA method 24</i> ] [ <i>Details: Part A and B mixed</i> ] |

## 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

Accelerators

Amines

Strong acids

Strong bases

Strong oxidizing agents

### 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:

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

#### Skin Contact:

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

#### 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:****Prolonged or repeated exposure may cause target organ effects:**

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Endocrine Effects: Signs/symptoms may include disruption of gonadal, thyroid, adrenal, or pancreatic function; changes in hormone production; alterations in circulating hormone levels; and/or changes in tissue response to hormones.

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| Ingredient   | CAS No.   | Class Description             | Regulation                                  |
|--------------|-----------|-------------------------------|---|
| CARBON BLACK | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Additional Information:**

Increased numbers of tumors in the liver, thyroid, and possibly the mammary glands were observed in rats given DETDA (CAS No. 68479-98-1) in their diet for two years.

**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  | Ingestion                      |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                           | Dermal                         | Rat     | LD50 > 2,000 mg/kg                                    |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                           | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 50 mg/l  |
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                           | Ingestion                      | Rat     | LD50 4,600 mg/kg                                      |
| DIETHYLMETHYLBENZENEDIAMINE                                      | Dermal                         | Rat     | LD50 > 2,000 mg/kg                                    |
| DIETHYLMETHYLBENZENEDIAMINE                                      | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.61 mg/l                                      |
| DIETHYLMETHYLBENZENEDIAMINE                                      | Ingestion                      | Rat     | LD50 472 mg/kg  |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-HYDRO.-OMEGA.-HYDROXY- | Dermal                         | Rabbit  | LD50 > 10,000 mg/kg                                   |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-HYDRO.-OMEGA.-HYDROXY- | Ingestion                      | Rat     | LD50 > 2,000 mg/kg                                    |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE              | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                    |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE              | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                                     |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE              | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                                    |
| ZEOLITES   | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                                    |
| ZEOLITES   | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 4.57 mg/l                                      |
| ZEOLITES   | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                                    |
| DIISONONYL PHTHALATE   | Dermal                         | Rabbit  | LD50 > 3,160 mg/kg                                    |

|   |                                |        |                     |
|---|--------------------------------|--------|---------------------|
| DIISONONYL PHTHALATE  | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 1.7 mg/l     |
| DIISONONYL PHTHALATE  | Ingestion                      | Rat    | LD50 > 10,000 mg/kg |
| CARBON BLACK  | Dermal                         | Rabbit | LD50 > 3,000 mg/kg  |
| CARBON BLACK  | Ingestion                      | Rat    | LD50 > 8,000 mg/kg  |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE                        | Dermal                         | Rabbit | LD50 > 2,000 mg/kg  |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE                        | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 4.6 mg/l       |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE                        | Ingestion                      | Rat    | LD50 > 5,000 mg/kg  |
| BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE | Dermal                         | Rat    | LD50 > 2,000 mg/kg  |
| BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE | Ingestion                      | Rat    | LD50 > 5,000 mg/kg  |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species | Value                     |
|--|---------|---------------------------|
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                           | Rabbit  | No significant irritation |
| DIETHYLMETHYLBENZENEDIAMINE                                      | Rabbit  | No significant irritation |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-HYDRO.-OMEGA.-HYDROXY- | Rabbit  | No significant irritation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE              | Rabbit  | No significant irritation |
| ZEOLITES   | Rabbit  | No significant irritation |
| DIISONONYL PHTHALATE   | Rabbit  | No significant irritation |
| CARBON BLACK   | Rabbit  | No significant irritation |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE                   | Rabbit  | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name   | Species       | Value                     |
|--|---------------|---------------------------|
| POLYPROPYLENE GLYCOL GLYCEROL TRIETHER                           | Rabbit        | Mild irritant             |
| DIETHYLMETHYLBENZENEDIAMINE                                      | Rabbit        | Severe irritant           |
| POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-HYDRO.-OMEGA.-HYDROXY- | Rabbit        | No significant irritation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE              | Rabbit        | No significant irritation |
| ZEOLITES   | Rabbit        | Mild irritant             |
| DIISONONYL PHTHALATE   | Rabbit        | Mild irritant             |
| CARBON BLACK   | Rabbit        | No significant irritation |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE                   | Not available | Mild irritant             |

**Skin Sensitization**

| Name  | Species          | Value          |
|---|------------------|----------------|
| DIETHYLMETHYLBENZENEDIAMINE                         | Human            | Not classified |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Human and animal | Not classified |
| DIISONONYL PHTHALATE                                | Human and animal | 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  |
|-----------------------------|----------|--|
| DIETHYLMETHYLBENZENEDIAMINE | In Vitro | Some positive data exist, but the data are not |

|   |          |   |
|---|----------|---|
| DIETHYLMETHYLBENZENEDIAMINE                         | In vivo  | sufficient for classification<br>Some positive data exist, but the data are not sufficient for classification |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | In Vitro | Not mutagenic   |
| DIISONONYL PHTHALATE                                | In Vitro | Not mutagenic   |
| CARBON BLACK  | In Vitro | Not mutagenic   |
| CARBON BLACK  | In vivo  | Some positive data exist, but the data are not sufficient for classification                                  |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE      | In Vitro | Some positive data exist, but the data are not sufficient for classification                                  |

**Carcinogenicity**

| Name  | Route         | Species                 | Value  |
|---|---------------|-------------------------|--|
| DIETHYLMETHYLBENZENEDIAMINE                         | Ingestion     | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| DIISONONYL PHTHALATE                                | Ingestion     | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| CARBON BLACK  | Dermal        | Mouse                   | Not carcinogenic   |
| CARBON BLACK  | Ingestion     | Mouse                   | Not carcinogenic   |
| CARBON BLACK  | Inhalation    | Rat                     | Carcinogenic   |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE      | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name  | Route     | Value                                  | Species | Test Result           | Exposure Duration    |
|---|-----------|--|---------|-----------------------|----------------------|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |
| DIISONONYL PHTHALATE                                | Ingestion | Not classified for female reproduction | Rat     | NOAEL 500 mg/kg/day   | 2 generation         |
| DIISONONYL PHTHALATE                                | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 500 mg/kg/day   | 2 generation         |
| DIISONONYL PHTHALATE                                | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name   | Route      | Target Organ(s)  | Value  | Species       | Test Result | Exposure Duration |
|--|------------|--|--|---------------|-------------|-------------------|
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE | Inhalation | central nervous system depression   respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Not available | NOAEL NA    |                   |
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE | Ingestion  | central nervous system depression                          | May cause drowsiness or dizziness  | Not available | NOAEL NA    |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                        | Route     | Target Organ(s)  | Value  | Species | Test Result         | Exposure Duration |
|-----------------------------|-----------|------------------|--|---------|---------------------|-------------------|
| DIETHYLMETHYLBENZENEDIAMINE | Ingestion | liver            | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL 0.4 mg/kg/day | 24 months         |
| DIETHYLMETHYLBEN            | Ingestion | endocrine system | May cause damage to organs                                     | Rat     | NOAEL 1.4           | 24 months         |



|   |            |   |                                       |        |                       |                       |
|---|------------|---|---------------------------------------|--------|-----------------------|-----------------------|
| ZENEDIAMINE   |            |   | though prolonged or repeated exposure |        | mg/kg/day             |                       |
| DIETHYLMETHYLBEN ZENEDIAMINE                        | Ingestion  | kidney and/or bladder   | Not classified                        | Rat    | NOAEL 2.8 mg/kg/day   | 24 months             |
| DIETHYLMETHYLBEN ZENEDIAMINE                        | Ingestion  | eyes  | Not classified                        | Rat    | NOAEL 1.4 mg/kg/day   | 24 months             |
| DIETHYLMETHYLBEN ZENEDIAMINE                        | Ingestion  | heart   skin   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system | Not classified                        | Rat    | NOAEL 3.5 mg/kg/day   | 24 months             |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | respiratory system   silicosis  | Not classified                        | Human  | NOAEL Not available   | occupational exposure |
| DIISONONYL PHTHALATE                                | Dermal     | blood   liver   kidney and/or bladder   | Not classified                        | Rabbit | NOAEL 2,425 mg/kg/day | 6 weeks               |
| DIISONONYL PHTHALATE                                | Ingestion  | kidney and/or bladder   | Not classified                        | Rat    | NOAEL not available   | 13 weeks              |
| CARBON BLACK  | Inhalation | pneumoconiosis  | Not classified                        | Human  | NOAEL Not available   | occupational exposure |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| SOLVENT REFINED HYDROTREATED MIDDLE DISTILLATE | 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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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.

EPA Hazardous Waste Number (RCRA): Not regulated

**SECTION 14: Transport Information**

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

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Carcinogenicity

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

**This material contains a chemical which requires export notification under TSCA Section 12[b]:**

| <u>Ingredient (Category if applicable)</u>                                | <u>C.A.S. No</u> | <u>Regulation</u>  | <u>Status</u> |
|---|------------------|--|---------------|
| DIETHYLMETHYLBENZENEDIAMINE<br>(Benzenediamine, ar,ar-diethyl-ar-methyl-) | 68479-98-1       | Toxic Substances Control Act (TSCA) 4<br>Test Rule Chemicals | Applicable    |
| DIETHYLMETHYLBENZENEDIAMINE   | 68479-98-1       | Toxic Substances Control Act (TSCA) 4<br>Test Rule Chemicals | Applicable    |

### 15.2. State Regulations

Contact 3M for more information.

#### California Proposition 65

| <u>Ingredient</u>                                  | <u>C.A.S. No.</u> | <u>Listing</u>          |
|--|-------------------|-------------------------|
| 1,2-Benzenedicarboxylic acid, 1,2-diisononyl ester | None              | Carcinogen              |
| Cadmium  | 7440-43-9         | Male reproductive toxin |
| Cadmium  | 7440-43-9         | Carcinogen              |
| Cadmium  | 7440-43-9         | Developmental Toxin     |

### 15.3. Chemical Inventories

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.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. 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 chemical notification requirements of TSCA.

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:** 1 **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.

### HMIS Hazard Classification

**Health:** \*2 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
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|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 10/22/18  | <b>Supersedes Date:</b> | 01/18/18 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M Scotchkote Urethane Elastomer Primer 075

#### Product Identification Numbers

GR-2001-0972-0, GR-2001-0973-8  
4100017667, 4100017668

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Primer for Urethane elastomers., Primer

#### 1.3. Supplier's details

|                      |  |
|----------------------|--|
| <b>MANUFACTURER:</b> | 3M   |
| <b>DIVISION:</b>     | 3M United Kingdom<br>Electrical Markets Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA          |
| <b>Telephone:</b>    | 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 Corrosion/Irritation: Category 2.  
Respiratory Sensitizer: Category 1.  
Skin Sensitizer: Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3.  
Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 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.

Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure:  
respiratory system |**Precautionary Statements****Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye/face protection.

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

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

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

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

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.

Keep container tightly closed.  
Store locked up.

**Disposal:**

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

25% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

| Ingredient                           | C.A.S. No. | % by Wt                |
|--------------------------------------|------------|------------------------|
| METHYL ETHYL KETONE                  | 78-93-3    | 70 - 80 Trade Secret * |
| NON-HAZARDOUS MATERIALS              | Mixture    | 15 - 30                |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | 5873-54-1  | 1 - 5 Trade Secret *   |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | 101-68-8   | 1 - 5 Trade Secret *   |

\*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**

See Section 11.1. Information on toxicological effects.

**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

|                    |                   |
|--------------------|-------------------|
| Carbon monoxide    | During Combustion |
| Carbon dioxide     | During Combustion |
| Hydrogen Cyanide   | 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

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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. 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. 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 to prevent contamination with water or air. If contamination is suspected, do not reseal container. 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 |
|--------------------------------------|------------|--------|---------------------------------------|---------------------|
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | 101-68-8   | ACGIH  | TWA:0.005 ppm                         |                     |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | 101-68-8   | OSHA   | CEIL:0.2 mg/m <sup>3</sup> (0.02 ppm) |                     |
| METHYL ETHYL KETONE                  | 78-93-3    | ACGIH  | TWA:200 ppm;STEL:300 ppm              |                     |
| METHYL ETHYL KETONE                  | 78-93-3    | OSHA   | TWA:590 mg/m <sup>3</sup> (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

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:

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: Butyl Rubber

Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber

Apron - polymer laminate

##### 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

|  |  |
|--|--|
| <b>General Physical Form:</b>                  | Liquid   |
| <b>Specific Physical Form:</b>                 | Liquid   |
| <b>Odor, Color, Grade:</b>                     | Pungent Solvent odor; Clear Amber color  |
| <b>Odor threshold</b>                          | <i>No Data Available</i>   |
| <b>pH</b>                                      | <i>Not Applicable</i>  |
| <b>Melting point</b>                           | <i>Not Applicable</i>  |
| <b>Boiling Point</b>                           | >=80 °C  |
| <b>Flash Point</b>                             | -7 °C [ <i>Test Method: Closed Cup</i> ]   |
| <b>Evaporation rate</b>                        | 2.7 [ <i>Ref Std: BUOAC=1</i> ]  |
| <b>Flammability (solid, gas)</b>               | Not Applicable   |
| <b>Flammable Limits(LEL)</b>                   | 1.8 % volume   |
| <b>Flammable Limits(UEL)</b>                   | 11.5 % volume  |
| <b>Vapor Pressure</b>                          | 78 mmHg [ <i>@ 20 °C</i> ]   |
| <b>Vapor Density</b>                           | 2.5 [ <i>Ref Std: AIR=1</i> ]  |
| <b>Density</b>                                 | .870 g/ml  |
| <b>Specific Gravity</b>                        | 0.870 [ <i>Ref Std: WATER=1</i> ]  |
| <b>Solubility in Water</b>                     | Negligible   |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>   |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>   |
| <b>Autoignition temperature</b>                | 515 °C   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>   |
| <b>Viscosity</b>                               | < 1 centipoise   |
| <b>Volatile Organic Compounds</b>              | 757.816 g/l [ <i>Test Method: tested per EPA method 24</i> ]<br>[ <i>Details: Parts A and B as mixed</i> ] |
| <b>Percent volatile</b>                        | 75 % weight  |

## 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

Temperatures above the boiling point

### 10.5. Incompatible materials

Alcohols

Combustibles

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

Strong acids

Strong oxidizing agents

#### 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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

##### Skin Contact:

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

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.

#### Additional Health Effects:

##### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

##### Prolonged or repeated exposure may cause target organ effects:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

#### Additional Information:

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

#### 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 ATE20 - 50 mg/l        |
| Overall product                      | Ingestion                      |         | No data available; calculated ATE2,000 - 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                                     |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                   |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                   |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                      |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Ingestion                      | Rat     | LD50 31,600 mg/kg                                    |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                      |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Ingestion                      | Rat     | LD50 31,600 mg/kg                                    |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                 | Species                 | Value              |
|--------------------------------------|-------------------------|--------------------|
| METHYL ETHYL KETONE                  | Rabbit                  | Minimal irritation |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | official classification | Irritant           |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | official classification | Irritant           |

#### Serious Eye Damage/Irritation

| Name                                 | Species                 | Value           |
|--------------------------------------|-------------------------|-----------------|
| METHYL ETHYL KETONE                  | Rabbit                  | Severe irritant |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | official classification | Severe irritant |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | official classification | Severe irritant |

#### Skin Sensitization

| Name                                 | Species                 | Value       |
|--------------------------------------|-------------------------|-------------|
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | official classification | Sensitizing |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | official classification | Sensitizing |

**Respiratory Sensitization**

| Name                                 | Species | Value       |
|--------------------------------------|---------|-------------|
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Human   | Sensitizing |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Human   | Sensitizing |

**Germ Cell Mutagenicity**

| Name                                 | Route    | Value  |
|--------------------------------------|----------|--|
| METHYL ETHYL KETONE                  | In Vitro | Not mutagenic  |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                                 | Route      | Species | Value  |
|--------------------------------------|------------|---------|--|
| METHYL ETHYL KETONE                  | Inhalation | Human   | Not carcinogenic   |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Inhalation | 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     |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Inhalation | Not classified for development | Rat     | NOAEL 0.004 mg/l | during organogenesis |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Inhalation | Not classified for development | Rat     | NOAEL 0.004 mg/l | during organogenesis |

**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    |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Inhalation | respiratory irritation            | May cause respiratory irritation   | official classification | NOAEL Not available |                   |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Inhalation | respiratory irritation            | May cause respiratory irritation   | official classification | 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   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   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           |
| DIPHENYLMETHANE-2,4'-DIISOCYANATE    | Inhalation | respiratory system   | Causes damage to organs through prolonged or repeated exposure | Rat        | LOAEL 0.004 mg/l    | 13 weeks          |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE) | Inhalation | respiratory system   | Causes damage to organs through prolonged or repeated exposure | Rat        | LOAEL 0.004 mg/l    | 13 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****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

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

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

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable), 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**

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

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

| <u>Ingredient</u>  | <u>C.A.S. No</u> | <u>% by Wt</u>     |
|--|------------------|--------------------|
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE)   | 101-68-8         | Trade Secret 1 - 5 |
| P,P'-METHYLENEBIS(PHENYL ISOCYANATE)<br>(DIISOCYANATES (CERTAIN CHEMICALS ONLY)) | 101-68-8         | 1 - 5              |

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

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: 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.

**HMIS Hazard Classification**

**Health:** \*2 **Flammability:** 3 **Physical Hazard:** 1 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
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