



## Material Safety Data Sheet

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**PRODUCT NAME:** 3M(TM) Scotch-Weld(TM) Epoxy Adhesive DP-420, Off-White  
**MANUFACTURER:** 3M  
**DIVISION:** Industrial Adhesives and Tapes

**ADDRESS:** 3M Center  
St. Paul, MN 55144-1000

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

**Issue Date:** 12/15/2003  
**Supersedes Date:** 05/29/2001

**Document Group:** 11-2411-4

**ID Number(s):**  
62-3280-1430-3, 62-3280-1435-2, 62-3280-3530-8, 62-3280-3830-2

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

11-2409-8, 11-2410-6

No revision information is available.

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MATERIAL SAFETY            3M  
 DATA SHEET                3M Center  
                               St. Paul, Minnesota  
                               55144-1000  
                               1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: ENGINEERED ADHESIVES  
 TRADE NAME:

SCOTCH-WELD(TM) Epoxy Adhesive DP-420, Off-White (Part B)  
 ISSUED: May 29, 2001  
 SUPERSEDES: November 13, 2000  
 DOCUMENT: 11-2409-8

| 1. INGREDIENT   | C.A.S. NO.  | PERCENT |        |
|---|-------------|---------|--------|
| EPOXY RESIN.....  | 25068-38-6  | 80.0    | - 90.0 |
| ACRYLIC POLYMER - N.J. TRADE SECRET<br>(T.S.) REGISTRY #04499600-5018P ++.... | TradeSecret | 10.0    | - 20.0 |

The components of this product are in compliance with the chemical  
 notification requirements of TSCA. All applicable chemical  
 ingredients in this material are listed on the European Inventory of  
 Existing Chemical Substances (EINECS), or are exempt polymers whose  
 monomers are listed on EINECS.

This base is used in a duo-pak cartridge kit with: SCOTCH-WELD (TM)  
 DP-420 (Part A); Document #1124106; Kit Doc #1124114.  
 ++ Not hazardous according to Canadian WHMIS criteria. Non-WHMIS  
 controlled.

2. PHYSICAL DATA

BOILING POINT:..... N/A  
 VAPOR PRESSURE:..... N/A  
 VAPOR DENSITY:..... N/A  
 EVAPORATION RATE:..... N/A  
 SOLUBILITY IN WATER:..... nil  
 SPECIFIC GRAVITY:..... 1.140 Water=1  
 PERCENT VOLATILE:..... 0.00 % by wt  
 pH:..... N/A  
 VISCOSITY:..... 100000.0 centipoise  
                               @ room temperature  
 MELTING POINT:..... N/D

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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2. PHYSICAL DATA (continued)  
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APPEARANCE AND ODOR:  
viscous liquid, white, very mild odor.

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3. FIRE AND EXPLOSION HAZARD DATA  
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FLASH POINT:..... > 340.00 F COC  
FLAMMABLE LIMITS - LEL:..... N/A  
FLAMMABLE LIMITS - UEL:..... N/A  
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:  
Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:  
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.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
None known.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0  
UNUSUAL REACTION HAZARD: none

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4. REACTIVITY DATA  
-----

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:  
Strong Acids, Strong Oxidizing Agents. Heat is generated during  
cure. Do not cure a mass larger than 50 grams in a confined space to  
prevent a premature reaction (exotherm) with production of intense  
heat and smoke.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:  
Carbon Monoxide and Carbon Dioxide, Aldehydes, Ketones, Hydrocarbons,  
Toxic Vapors, Gases or Particulates.

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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5. ENVIRONMENTAL INFORMATION  
-----

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Cover with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:

Cure product according to product instructions. Incinerate uncured waste in an industrial or commercial incinerator. Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 0 gms/liter.  
VOC Less H2O & Exempt Solvents: 0 gms/liter.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

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6. SUGGESTED FIRST AID  
-----

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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7. PRECAUTIONARY INFORMATION  
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EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: polyethylene/ethylene vinyl alcohol.

RECOMMENDED VENTILATION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Curing ovens must be exhausted to outdoors or to a suitable emission control device. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors created during the cure cycle. Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

EXPOSURE LIMITS

| INGREDIENT   | VALUE | UNIT | TYPE | AUTH | SKIN* |
|--|-------|------|------|------|-------|
| EPOXY RESIN.....   | NONE  | NONE | NONE | NONE |       |
| ACRYLIC POLYMER - N.J. TRADE<br>SECRET (T.S.) REGISTRY #04499600-<br>5018P ++..... | NONE  | NONE | NONE | NONE |       |

\* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- NONE: None Established

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Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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8. HEALTH HAZARD DATA  
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EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Vapors from heated material may cause eye irritation.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Vapors of heated material may cause respiratory system irritation.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

OTHER HEALTH HAZARD INFORMATION:

Exposure to this material in normal storage and handling has not been reported to cause significant adverse health effects. However, under normal processing conditions, e.g. grinding or heating, this product may release fumes and vapors of variable composition based on specific process conditions. These process releases may produce irritation or any of the health effects listed above when the emissions are present at elevated concentrations. Use with appropriate local exhaust ventilation.

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SECTION CHANGE DATES  
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HEADING                      SECTION CHANGED SINCE November 13, 2000    ISSUE

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Abbreviations: N/D - Not Determined    N/A - Not Applicable    CA - Approximately  
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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Scotch-Weld(TM) Epoxy Adhesive DP-420, Off-White (Part A)  
**MANUFACTURER:** 3M  
**DIVISION:** Industrial Adhesives and Tapes

**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

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

**Issue Date:** 07/01/2005  
**Supersedes Date:** 05/29/2001

**Document Group:** 11-2410-6

#### Product Use:

Specific Use: Accelerator for 2-Part Epoxy

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>   | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|---|-------------------|----------------|
| 4,7,10-TRIOXATRIDECA-1,13-DIAMINE   | 4246-51-9         | 50 - 60        |
| MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A - N.J. Trade Secret (T.S.)<br>REGISTRY #04499600-5023P | Trade Secret      | 20 - 30        |
| EPOXY RESIN   | 25068-38-6        | 5 - 10         |
| 2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHENOL   | 90-72-2           | 3 - 7          |
| AMORPHOUS SILICA  | 7631-86-9         | 3 - 7          |
| SULFONIC ACID SALT - N.J. Trade Secret (T.S.) #04499600-5022P                                   | Trade Secret      | 1 - 5          |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Paste

**Odor, Color, Grade:** mild pungent odor, amber

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** May cause chemical eye burns. May cause allergic skin reaction.  
 May cause chemical skin burns.

#### 3.2 POTENTIAL HEALTH EFFECTS



**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.

Vapors released during curing may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Prolonged or repeated exposure may cause:

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

**Inhalation:**

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

Vapors released during curing may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Ingestion:**

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

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 15 minutes. Get immediate medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

|                                   |  |
|-----------------------------------|--|
| Autoignition temperature          | No Data Available                            |
| Flash Point                       | > 340 °F [Test Method: Tagliabue Closed Cup] |
| Flammable Limits - LEL            | No Data Available                            |
| Flammable Limits - UEL            | No Data Available                            |
| OSHA Flammability Classification: | Class IIIB Combustible Liquid                |

### 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Not applicable. Non-flammable; ordinary combustible material.

**Note:** See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect as much of the spilled material as possible. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Dispose of collected material as soon as possible.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Contents may be under pressure, open carefully. Avoid breathing of vapors, mists or spray. Avoid skin contact with hot material. Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only.

### 7.2 STORAGE

Store away from acids. Keep container in well-ventilated area. Store away from flammable and combustible materials.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Provide appropriate local exhaust when product is heated.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Polyvinyl Chloride, Polyethylene/Ethylene Vinyl Alcohol. The following protective clothing material(s) are recommended: Apron - Neoprene, Apron - PVC.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half mask R95 particulate respirator, Half mask or full facepiece air-purifying respirator with N100 particulate filters, Half facepiece or fullface air-purifying respirator with P100 particulate filters, Half facepiece or fullface air-purifying respirator with P95 particulate filters, Half facepiece or fullface air-purifying respirator with N95 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

### 8.3 EXPOSURE GUIDELINES

| <u>Ingredient</u>   | <u>Authority</u> | <u>Type</u> | <u>Limit</u>          | <u>Additional Information</u> |
|---|------------------|-------------|-----------------------|-------------------------------|
| SULFONIC ACID SALT - N.J. Trade Secret (T.S.) #04499600-5022P | 3M               | TWA         | 0.1 mg/m <sup>3</sup> | Skin Notation*                |
| AMORPHOUS SILICA  | CMRG             | CEIL        | 5 mg/m <sup>3</sup>   |                               |
| 2,4,6-TRIS((DIMETHYLAMINO)METHYL)PHE                          | CMRG             | TWA         | 5 ppm                 |                               |
| NOL   |                  |             |                       |                               |

\* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| <b>Specific Physical Form:</b>            | Paste  |
| <b>Odor, Color, Grade:</b>                | mild pungent odor, amber                                 |
| <b>General Physical Form:</b>             | Liquid   |
| <b>Autoignition temperature</b>           | <i>No Data Available</i>                                 |
| <b>Flash Point</b>                        | > 340 °F [ <i>Test Method:</i> Tagliabue Closed Cup]     |
| <b>Flammable Limits - LEL</b>             | <i>No Data Available</i>                                 |
| <b>Flammable Limits - UEL</b>             | <i>No Data Available</i>                                 |
| <b>Boiling point</b>                      | > 295 °C   |
| <b>Density</b>                            | 1.120 g/ml [@ 20 °C]                                     |
| <b>Vapor Density</b>                      | 3.72 [ <i>Ref Std:</i> AIR=1]                            |
| <b>Vapor Pressure</b>                     | <=27 psia [@ 131 °F]                                     |
| <b>Specific Gravity</b>                   | 1.12 [ <i>Ref Std:</i> WATER=1]                          |
| <b>pH</b>                                 | <i>Not Applicable</i>                                    |
| <b>Melting point</b>                      | <i>No Data Available</i>                                 |
| <b>Solubility in Water</b>                | Slight (less than 10%)                                   |
| <b>Evaporation rate</b>                   | Negligible   |
| <b>Volatile Organic Compounds</b>         | <=11 g/l [ <i>Test Method:</i> tested per EPA method 24] |
| <b>Percent volatile</b>                   | <=2 % weight   |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | <=11 g/l [ <i>Test Method:</i> tested per EPA method 24] |
| <b>Viscosity</b>                          | 8000 - 10000 centipoise [@ 25 °C]                        |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature reaction (exotherm) with production of intense heat and smoke.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

| <u>Substance</u>              | <u>Condition</u>  |
|-------------------------------|-------------------|
| Amine Compounds               | During Combustion |
| Carbon monoxide               | During Combustion |
| Carbon dioxide                | During Combustion |
| Oxides of Nitrogen            | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

## ECOTOXICOLOGICAL INFORMATION

Not determined.

## CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of completely cured (or polymerized) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator in the presence of a combustible material. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

**EPA Hazardous Waste Number (RCRA):** D002 (Corrosive)

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

DP-420

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

### STATE REGULATIONS

Contact 3M for more information.

### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS 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 Reactivity: 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.

No revision information is available.

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