



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 33-7129-1 | <b>Version Number:</b>  | 2.00     |
| <b>Issue Date:</b>     | 12/10/18  | <b>Supersedes Date:</b> | 05/04/16 |

### Product identifier

3M(TM) Scotch-Weld(TM) Low Odor Acrylic Adhesive DP8810NS Gray

| ID Number      | UPC | ID Number      | UPC |
|----------------|-----|----------------|-----|
| 62-2858-1450-5 |     | 62-2858-1455-4 |     |
| 62-2858-3631-8 |     |                |     |

7010329557, 7100097474, 7010365956

### Recommended use

Structural adhesive

### Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

### Emergency telephone number

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

33-7125-9, 33-7124-2

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**Document Group:** 33-7124-2  
**Issue Date:** 12/10/18

**Version Number:** 3.00  
**Supersedes Date:** 05/22/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odor Acrylic Adhesive DP8810NS Gray, Part A

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

##### Recommended use

Structural adhesive

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Industrial Adhesives and Tapes Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Skin Sensitizer: Category 1B.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

##### Pictograms



**Hazard Statements**

May cause an allergic skin reaction.

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

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

Wear protective gloves.

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

**Response:**

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.

**Disposal:**

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

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

| <b>Ingredient</b>                      | <b>C.A.S. No.</b> | <b>% by Wt</b>          |
|--|-------------------|-------------------------|
| Dibenzoate Propanol                    | 27138-31-4        | 45 - 65 Trade Secret *  |
| Acrylate Polymer                       | 25101-28-4        | 10 - 30 Trade Secret *  |
| Catalyst (NJTS Reg. No. 04499600-6922) | Trade Secret*     | 1 - 20 Trade Secret *   |
| Organic Peroxide                       | 13122-18-4        | 0.1 - 10 Trade Secret * |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

\*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

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

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

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. 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. 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

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/occupational use only. Not for consumer sale or use. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Protect from sunlight. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store in a dry place. Store away from amines.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

**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**

None required.

**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.

Gloves made from the following material(s) are recommended: Butyl Rubber

Neoprene

Nitrile Rubber

**Respiratory protection**

None required.

**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>                     | White, hydrocarbon odor              |
| <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>                           | $\geq 150$ °F                        |
| <b>Flash Point</b>                             | $> 200$ °F [Test Method: 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>                          | <i>No Data Available</i>             |
| <b>Vapor Density</b>                           | <i>No Data Available</i>             |
| <b>Density</b>                                 | 1.08 g/ml                            |
| <b>Specific Gravity</b>                        | 1.08 [Ref Std: WATER=1]              |
| <b>Solubility In Water</b>                     | <i>No Data Available</i>             |
| <b>Solubility in Water</b>                     | Nil                                  |
| <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>                | <i>No Data Available</i>             |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>             |
| <b>Viscosity</b>                               | 20,000 centipoise                    |

Hazardous Air Pollutants  
VOC Less H<sub>2</sub>O & Exempt Solvents

0 % weight  
2.8 g/l [*Details*:when used as intended with Part B]

## 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

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:

This product may have a characteristic odor; however, no adverse health effects are anticipated.

#### Skin Contact:

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

May be harmful if swallowed.

#### 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 |
| Dibenzoate Propanol                    | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                    |
| Dibenzoate Propanol                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 200 mg/l                                       |
| Dibenzoate Propanol                    | Ingestion                      | Rat                    | LD50 3,295 mg/kg                                      |
| Acrylate Polymer                       | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                    |
| Acrylate Polymer                       | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                    |
| Catalyst (NJTS Reg. No. 04499600-6922) | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| Catalyst (NJTS Reg. No. 04499600-6922) | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                                    |
| Organic Peroxide                       | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                    |
| Organic Peroxide                       | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.8 mg/l                                       |
| Organic Peroxide                       | Ingestion                      | Rat                    | LD50 12,905 mg/kg                                     |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                | Species | Value                     |
|---------------------|---------|---------------------------|
| Dibenzoate Propanol | Rabbit  | No significant irritation |
| Organic Peroxide    | Rabbit  | No significant irritation |

#### Serious Eye Damage/Irritation

| Name                | Species | Value                     |
|---------------------|---------|---------------------------|
| Dibenzoate Propanol | Rabbit  | No significant irritation |
| Organic Peroxide    | Rabbit  | No significant irritation |

#### Skin Sensitization

| Name                                   | Species    | Value          |
|--|------------|----------------|
| Dibenzoate Propanol                    | Guinea pig | Not classified |
| Catalyst (NJTS Reg. No. 04499600-6922) | Mouse      | Not classified |
| Organic Peroxide                       | Guinea pig | Sensitizing    |

#### 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         |
|--|----------|---------------|
| Dibenzoate Propanol                    | In Vitro | Not mutagenic |
| Catalyst (NJTS Reg. No. 04499600-6922) | In Vitro | Not mutagenic |



**Carcinogenicity**

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

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

| Name                | Route     | Value                                  | Species | Test Result           | Exposure Duration |
|---------------------|-----------|--|---------|-----------------------|-------------------|
| Dibenzoate Propanol | Ingestion | Not classified for female reproduction | Rat     | NOAEL 500 mg/kg/day   | 2 generation      |
| Dibenzoate Propanol | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 400 mg/kg/day   | 2 generation      |
| Dibenzoate Propanol | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | during gestation  |

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

| Name                                   | Route     | Target Organ(s) | Value          | Species | Test Result       | Exposure Duration |
|--|-----------|-----------------|----------------|---------|-------------------|-------------------|
| Catalyst (NJTS Reg. No. 04499600-6922) | Ingestion | nervous system  | Not classified | Rat     | NOAEL 2,000 mg/kg |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                | Route     | Target Organ(s)              | Value          | Species | Test Result           | Exposure Duration |
|---------------------|-----------|------------------------------|----------------|---------|-----------------------|-------------------|
| Dibenzoate Propanol | Ingestion | hematopoietic system   liver | Not classified | Rat     | NOAEL 2,500 mg/kg/day | 90 days           |

**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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the

respective regulating authorities to determine the available treatment and disposal facilities.

**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

Respiratory or Skin Sensitization

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 2 **Flammability:** 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.

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**Document Group:** 33-7125-9

**Version Number:** 3.00

**Issue Date:** 05/13/19

**Supersedes Date:** 12/10/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odor Acrylic Adhesive DP8810NS Gray, Part B

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

##### Recommended use

Structural adhesive

#### 1.3. Supplier's details

**MANUFACTURER:** 3M

**DIVISION:** Industrial Adhesives and Tapes Division

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

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

**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.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

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

**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 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.

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

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

### SECTION 3: Composition/information on ingredients

| Ingredient  | C.A.S. No.    | % by Wt                 |
|---|---------------|-------------------------|
| Tetrahydrofurfuryl Methacrylate   | 2455-24-5     | 25 - 45 Trade Secret *  |
| Butadiene-Acrylonitrile Polymer   | 9003-18-3     | 1 - 20 Trade Secret *   |
| Hydroxyethyl Methacrylate   | 868-77-9      | 1 - 20 Trade Secret *   |
| Isobornyl Methacrylate  | 7534-94-3     | 1 - 20 Trade Secret *   |
| Fillers (NJTS Reg. No. 04499600-6923)   | Trade Secret* | 1 - 20 Trade Secret *   |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer)                      | 41637-38-1    | 0.1 - 10 Trade Secret * |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonooxy)- | 95175-93-2    | < 3 Trade Secret *      |
| Tetrahydrofurfuryl alcohol  | 97-99-4       | < 1 Trade Secret *      |
| Copper Naphthenates   | 1338-02-9     | < 0.1 Trade Secret *    |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

\*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 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 Chloride  
Oxides of Nitrogen

#### Condition

During Combustion  
During Combustion  
During Combustion  
During Combustion

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

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. 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. 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

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/occupational use only. Not for consumer sale or use. 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

Store away from heat. 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            |
|---------------------------------------|--------------|--------|---|--------------------------------|
| COPPER COMPOUNDS                      | 1338-02-9    | ACGIH  | TWA(as Cu dust or mist):1 mg/m3;TWA(as Cu, fume):0.2 mg/m3  |                                |
| Tetrahydrofurfuryl alcohol            | 97-99-4      | AIHA   | TWA:2 mg/m3(0.5 ppm)  |                                |
| Fillers (NJTS Reg. No. 04499600-6923) | Trade Secret | ACGIH  | TWA(inhalable particulates):10 mg/m3;TWA(respirable fraction):2 mg/m3;TWA(respirable particles):3 mg/m3   | A4: Not class. as human carcin |
| Fillers (NJTS Reg. No. 04499600-6923) | Trade Secret | OSHA   | TWA(as total dust):15 mg/m3;TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3);TWA(respirable |                                |

fraction):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

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

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used: Nitrile Rubber

#### 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

**General Physical Form:**

Liquid

**Specific Physical Form:**

Paste

**Odor, Color, Grade:**

White acrylate odor

**Odor threshold**

*No Data Available*

**pH**

*Not Applicable*

**Melting point**

*Not Applicable*

**Boiling Point**

$\geq 100$  °F

**Flash Point**

$> 200$  °F [Test Method: Closed Cup]

**Evaporation rate**

*No Data Available*

**Flammability (solid, gas)**

Not Applicable



|   |   |
|---|---|
| Flammable Limits(LEL)                   | No Data Available                                   |
| Flammable Limits(UEL)                   | No Data Available                                   |
| Vapor Pressure                          | No Data Available                                   |
| Vapor Density                           | No Data Available                                   |
| Density                                 | 1.13 g/ml   |
| Specific Gravity                        | 1.13 [Ref Std:WATER=1]                              |
| Solubility in Water                     | Nil   |
| Solubility- non-water                   | No Data Available                                   |
| Partition coefficient: n-octanol/ water | No Data Available                                   |
| Autoignition temperature                | No Data Available                                   |
| Decomposition temperature               | No Data Available                                   |
| Viscosity                               | 100,000 - 125,000 centipoise                        |
| Hazardous Air Pollutants                | 0 % weight  |
| Molecular weight                        | Not Applicable                                      |
| VOC Less H2O & Exempt Solvents          | 4.8 g/l [Details:when used as intended with Part A] |
| VOC Less H2O & Exempt Solvents          | 612 g/l [Details:as supplied]                       |
| VOC Less H2O & Exempt Solvents          | 0.5 % [Details:when used as intended with Part A]   |

## 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

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.

May cause additional health effects (see below).

##### Skin Contact:

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

May cause additional health effects (see below).

##### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion:

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

May cause additional health effects (see below).

#### Additional Health Effects:

##### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Toxicological Data

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

##### Acute Toxicity

| Name   | Route     | Species                | Value  |
|--|-----------|------------------------|--|
| Overall product  | Dermal    |                        | No data available; calculated ATE >5,000 mg/kg |
| Overall product  | Ingestion |                        | No data available; calculated ATE >5,000 mg/kg |
| Tetrahydrofurfuryl Methacrylate                                  | Ingestion | Rat                    | LD50 4,000 mg/kg                               |
| Tetrahydrofurfuryl Methacrylate                                  | Dermal    | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Hydroxyethyl Methacrylate  | Dermal    | Rabbit                 | LD50 > 5,000 mg/kg                             |
| Hydroxyethyl Methacrylate  | Ingestion | Rat                    | LD50 5,564 mg/kg                               |
| Butadiene-Acrylonitrile Polymer                                  | Dermal    | Rabbit                 | LD50 > 15,000 mg/kg                            |
| Butadiene-Acrylonitrile Polymer                                  | Ingestion | Rat                    | LD50 > 30,000 mg/kg                            |
| Isobornyl Methacrylate   | Dermal    | Rabbit                 | LD50 > 3,000 mg/kg                             |
| Isobornyl Methacrylate   | Ingestion | Rat                    | LD50 > 2,000 mg/kg                             |
| Fillers (NJTS Reg. No. 04499600-6923)                            | Dermal    |                        | LD50 estimated to be > 5,000 mg/kg             |
| Fillers (NJTS Reg. No. 04499600-6923)                            | Ingestion | Human                  | LD50 > 15,000 mg/kg                            |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Dermal    | Rat                    | LD50 > 2,000 mg/kg                             |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Ingestion | Rat                    | LD50 > 35,000 mg/kg                            |
| Poly[oxy(methyl-1,2-ethanediyl)], a.-(2-methyl-1-oxo-2-          | Ingestion | Rat                    | LD50 > 5,000 mg/kg                             |

|  |                            |                        |  |
|--|----------------------------|------------------------|--|
| propenyl)-w.-(phosphonoxy)-<br>Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-w.-(phosphonoxy)- | Dermal                     | similar health hazards | LD50 estimated to be > 5,000 mg/kg       |
| Tetrahydrofurfuryl alcohol   | Dermal                     | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Tetrahydrofurfuryl alcohol   | Inhalation-Vapor (4 hours) | Rat                    | LC50 > 3.1 mg/l                          |
| Tetrahydrofurfuryl alcohol   | Ingestion                  | Rat                    | LD50 > 2,000 mg/kg                       |
| Copper Naphthenates  | Dermal                     | similar compounds      | LD50 > 2,000 mg/kg                       |
| Copper Naphthenates  | Ingestion                  | similar compounds      | LD50 > 300, < 2,000 mg/kg                |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Tetrahydrofurfuryl Methacrylate   | Rabbit                 | No significant irritation |
| Hydroxyethyl Methacrylate   | Rabbit                 | Minimal irritation        |
| Butadiene-Acrylonitrile Polymer   | Professional judgement | No significant irritation |
| Isobornyl Methacrylate  | Rabbit                 | Mild irritant             |
| Fillers (NJTS Reg. No. 04499600-6923)   | Professional judgement | No significant irritation |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer)                    | Rabbit                 | Minimal irritation        |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-w.-(phosphonoxy)- | Not available          | Irritant                  |
| Tetrahydrofurfuryl alcohol  | Rabbit                 | No significant irritation |
| Copper Naphthenates   | Rabbit                 | No significant irritation |

### Serious Eye Damage/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Tetrahydrofurfuryl Methacrylate   | Rabbit                 | No significant irritation |
| Hydroxyethyl Methacrylate   | Rabbit                 | Moderate irritant         |
| Butadiene-Acrylonitrile Polymer   | Professional judgement | No significant irritation |
| Isobornyl Methacrylate  | Rabbit                 | Mild irritant             |
| Fillers (NJTS Reg. No. 04499600-6923)   | Professional judgement | No significant irritation |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer)                    | Rabbit                 | No significant irritation |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-w.-(phosphonoxy)- | Not available          | Corrosive                 |
| Tetrahydrofurfuryl alcohol  | Rabbit                 | Severe irritant           |
| Copper Naphthenates   | In vitro data          | No significant irritation |

### Skin Sensitization

| Name                            | Species       | Value       |
|---------------------------------|---------------|-------------|
| Tetrahydrofurfuryl Methacrylate | In vitro data | Sensitizing |

|  |                  |                |
|--|------------------|----------------|
| Hydroxyethyl Methacrylate  | Human and animal | Sensitizing    |
| Isobornyl Methacrylate   | Guinea pig       | Not classified |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | Guinea pig       | Not classified |
| Tetrahydrofurfuryl alcohol                                       | Mouse            | Not classified |
| Copper Naphthenates  | 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  |
|--|----------|--|
| Tetrahydrofurfuryl Methacrylate                                  | In Vitro | Not mutagenic  |
| Hydroxyethyl Methacrylate  | In vivo  | Not mutagenic  |
| Hydroxyethyl Methacrylate  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Bisphenol A polyethylene glycol diether dimethacrylate (polymer) | In Vitro | Not mutagenic  |
| Tetrahydrofurfuryl alcohol                                       | In Vitro | Not mutagenic  |

### Carcinogenicity

| Name                                  | Route      | Species                 | Value            |
|---------------------------------------|------------|-------------------------|------------------|
| Fillers (NJTS Reg. No. 04499600-6923) | Inhalation | Multiple animal species | Not carcinogenic |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                            | Route      | Value                                  | Species | Test Result           | Exposure Duration            |
|---------------------------------|------------|--|---------|-----------------------|------------------------------|
| Tetrahydrofurfuryl Methacrylate | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 300 mg/kg/day   | 29 days                      |
| Tetrahydrofurfuryl Methacrylate | Ingestion  | Toxic to female reproduction           | Rat     | NOAEL 120 mg/kg/day   | premating into lactation     |
| Tetrahydrofurfuryl Methacrylate | Ingestion  | Toxic to development                   | Rat     | NOAEL 120 mg/kg/day   | premating into lactation     |
| Hydroxyethyl Methacrylate       | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Hydroxyethyl Methacrylate       | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 49 days                      |
| Hydroxyethyl Methacrylate       | Ingestion  | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Tetrahydrofurfuryl alcohol      | Ingestion  | Toxic to female reproduction           | Rat     | NOAEL 50 mg/kg/day    | premating into lactation     |
| Tetrahydrofurfuryl alcohol      | Dermal     | Toxic to male reproduction             | Rat     | NOAEL 100 mg/kg/day   | 13 weeks                     |
| Tetrahydrofurfuryl alcohol      | Ingestion  | Toxic to male reproduction             | Rat     | NOAEL 150 mg/kg/day   | 47 days                      |
| Tetrahydrofurfuryl alcohol      | Inhalation | Toxic to male reproduction             | Rat     | NOAEL 0.6 mg/l        | 90 days                      |
| Tetrahydrofurfuryl alcohol      | Ingestion  | Toxic to development                   | Rat     | NOAEL 50 mg/kg/day    | premating into lactation     |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name   | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|--|------------|------------------------|--|------------------------|---------------------|-------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Tetrahydrofurfuryl alcohol   | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                  | Route      | Target Organ(s)                          | Value  | Species | Test Result         | Exposure Duration     |
|---------------------------------------|------------|--|--|---------|---------------------|-----------------------|
| Tetrahydrofurfuryl Methacrylate       | Ingestion  | hematopoietic system   nervous system    | Not classified   | Rat     | NOAEL 300 mg/kg/day | 29 days               |
| Fillers (NJTS Reg. No. 04499600-6923) | Inhalation | pneumoconiosis                           | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL NA            | occupational exposure |
| Fillers (NJTS Reg. No. 04499600-6923) | Inhalation | pulmonary fibrosis                       | Not classified   | Rat     | NOAEL Not available |                       |
| Tetrahydrofurfuryl alcohol            | Inhalation | nervous system                           | Causes damage to organs through prolonged or repeated exposure               | Rat     | LOAEL 0.2 mg/l      | 90 days               |
| Tetrahydrofurfuryl alcohol            | Inhalation | hematopoietic system                     | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.6 mg/l      | 90 days               |
| Tetrahydrofurfuryl alcohol            | Inhalation | eyes                                     | Not classified   | Rat     | NOAEL 2.1 mg/l      | 90 days               |
| Tetrahydrofurfuryl alcohol            | Ingestion  | hematopoietic system                     | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 69 mg/kg/day  | 91 days               |
| Tetrahydrofurfuryl alcohol            | Ingestion  | immune system                            | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 150 mg/kg/day | 28 days               |
| Tetrahydrofurfuryl alcohol            | Ingestion  | endocrine system   kidney and/or bladder | Not classified   | Rat     | NOAEL 600 mg/kg/day | 28 days               |
| Tetrahydrofurfuryl alcohol            | Ingestion  | liver   eyes                             | Not classified   | Rat     | NOAEL 781 mg/kg/day | 91 days               |
| Tetrahydrofurfuryl alcohol            | Ingestion  | heart   nervous system                   | Not classified   | Rat     | NOAEL 600 mg/kg/day | 28 days               |

**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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## SECTION 14: Transport Information

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

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

#### NFPA Hazard Classification

Health: 2 Flammability: 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.

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