

## **Safety Data Sheet**

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 23-3221-1
 Version Number:
 2.01

 Issue Date:
 10/04/22
 Supercedes Date:
 04/16/15

**Product identifier** 

3M<sup>™</sup> Scotch-Weld<sup>™</sup> Epoxy Adheisve 420 Black

**ID** Number(s):

62-2778-7530-8

7000046381

Recommended use

Structural adhesive

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)

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:

22-0487-3, 22-0521-9

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Document Group:22-0487-3Version Number:8.02Issue Date:07/13/22Supercedes Date:11/18/20

## **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Epoxy Adhesive 420 Black, Part A

## **Product Identification Numbers**

41-3701-6877-9, 62-2878-8530-5, 62-2878-9530-4 7000000834, 7010365967

#### 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 1. Skin Corrosion/Irritation: Category 1B.

Skin Sensitizer: Category 1.

### 2.2. Label elements

### Signal word

Danger

#### **Symbols**

Corrosion | Exclamation mark |

## **Pictograms**

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#### **Hazard Statements**

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

## **Precautionary Statements**

### **Prevention:**

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

Wear protective gloves, protective clothing, and eye/face protection.

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 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.

Immediately call a POISON CENTER or doctor/physician.

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

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

### Storage:

Store locked up.

#### Disposal:

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

## 2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns.

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

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| Modified Epoxy Resin (NJTS Reg. No. 04499600-6839) | Trade Secret* | 40 - 80 Trade Secret * |
| 4,7,10-Trioxatridecane-1,13-Diamine                | 4246-51-9     | 10 - 50 Trade Secret * |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol            | 90-72-2       | 1 - 5 Trade Secret *   |
| Amorphous Silica                                   | 67762-90-7    | 1 - 5 Trade Secret *   |
| Calcium Salt                                       | 55120-75-7    | 1 - 5 Trade Secret *   |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

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

#### Inhalation:

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

#### Skin Contact

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

### **Eye Contact:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Not applicable

## **SECTION 5: Fire-fighting measures**

### 5.1. Suitable extinguishing media

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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

Exposure to extreme heat can give rise to thermal decomposition.

### **Hazardous Decomposition or By-Products**

| Substance                | Condition         |
|--------------------------|-------------------|
| Aldehydes                | During Combustion |
| Carbon monoxide          | During Combustion |
| Carbon dioxide           | During Combustion |
| Hydrogen Fluoride        | During Combustion |
| Irritant Vapors or Gases | During Combustion |
| Oxides of Nitrogen       | 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.

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## **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

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

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Do not breathe thermal decomposition products. For industrial/occupational use only. Not for consumer sale or use. 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.)

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

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              | <b>Additional Comments</b> |
|-------------------|------------|--------|-------------------------|----------------------------|
| SILICA, AMORPHOUS | 67762-90-7 | OSHA   | TWA:20 millions of      |                            |
|                   |            |        | particles/cu. ft.;TWA   |                            |
|                   |            |        | concentration:0.8 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

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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:

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: Butyl Rubber

Fluoroelastomer

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:

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

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

**Appearance** 

Physical stateLiquidColorAmber

Specific Physical Form: Paste

Odor Very Mild Odor, Pungent Odor

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNo Data Available

Boiling Point >=175 °C

Flash Point >=340 °F [Test Method: Closed Cup]

Evaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.12 g/ml

Specific Gravity

Solubility in Water

Solubility- non-water

Partition coefficient: n-octanol/ water

Autoignition temperature

Specific Gravity

1.12 [Ref Std:WATER=1]

Slight (less than 10%)

No Data Available

No Data Available

Autoignition temperature

No Data Available

No Data Available

No Data Available

No Data Available

**Viscosity** 8,000 - 14,000 centipoise [@ 73.4 °F] **Hazardous Air Pollutants** 0 % weight [*Test Method:* Calculated]

Molecular weight No Data Available

VOC Less H2O & Exempt Solvents 0 g/l [Test Method:calculated SCAQMD rule 443.1]

[Details: when used as intended with Part B]

VOC Less H2O & Exempt Solvents 0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as

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**VOC Less H2O & Exempt Solvents** 

supplied]
0 % [*Test Method*:calculated SCAQMD rule 443.1]
[*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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

### 10.5. Incompatible materials

Strong oxidizing agents

## 10.6. Hazardous decomposition products

#### **Substance**

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

# **SECTION 11: Toxicological information**

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

### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

#### Inhalation:

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

### **Skin Contact:**

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

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

## **Eye Contact:**

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

## **Ingestion:**

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

## **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 |
| 4,7,10-Trioxatridecane-1,13-Diamine     | Dermal                                | Rabbit                            | LD50 2,525 mg/kg                               |
| 4,7,10-Trioxatridecane-1,13-Diamine     | Ingestion                             | Rat                               | LD50 2,850 mg/kg                               |
| Amorphous Silica                        | Dermal                                | Rabbit                            | LD50 > 5,000 mg/kg                             |
| Amorphous Silica                        | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat                               | LC50 > 0.691 mg/l                              |
| Amorphous Silica                        | Ingestion                             | Rat                               | LD50 > 5,110 mg/kg                             |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol | Dermal                                | Rat                               | LD50 1,280 mg/kg                               |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol | Ingestion                             | Rat                               | LD50 1,000 mg/kg                               |
| Calcium Salt                            | Dermal                                | Professio<br>nal<br>judgeme<br>nt | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Calcium Salt                            | Ingestion                             | Rat                               | LD50 > 2,000 mg/kg                             |

ATE = acute toxicity estimate

## **Skin Corrosion/Irritation**

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
|   |         |                           |
| 4,7,10-Trioxatridecane-1,13-Diamine     | Rabbit  | Corrosive                 |
| Amorphous Silica                        | Rabbit  | No significant irritation |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol | Rabbit  | Corrosive                 |
| Calcium Salt                            | Rabbit  | Minimal irritation        |

**Serious Eye Damage/Irritation** 

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
|   |         |                           |
| 4,7,10-Trioxatridecane-1,13-Diamine     | Rabbit  | Corrosive                 |
| Amorphous Silica                        | Rabbit  | No significant irritation |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol | Rabbit  | Corrosive                 |
| Calcium Salt                            | Rabbit  | Corrosive                 |

## Skin Sensitization

| Skin Schsitization                      |           |                |
|---|-----------|----------------|
| Name                                    | Species   | Value          |
| 4,7,10-Trioxatridecane-1,13-Diamine     | Professio | Sensitizing    |
|   | nal       |                |
|   | judgeme   |                |
|   | nt        |                |
| Amorphous Silica                        | Human     | Not classified |
| •                                       | and       |                |
|   | animal    |                |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol | Guinea    | Not classified |
|   | pig       |                |
| Calcium Salt                            | Guinea    | Not classified |

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## **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         |
|---|----------|---------------|
| 4,7,10-Trioxatridecane-1,13-Diamine     | In Vitro | Not mutagenic |
| Amorphous Silica                        | In Vitro | Not mutagenic |
| 2,4,6-tris((Dimethylamino)Methyl)Phenol | In Vitro | Not mutagenic |
| Calcium Salt                            | In Vitro | Not mutagenic |

Carcinogenicity

| Name             | Route     | Species | Value  |
|------------------|-----------|---------|--|
| Amorphous Silica | Not       | Mouse   | Some positive data exist, but the data are not |
|                  | Specified |         | sufficient for classification                  |

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

| Name                                | Route     | Value                                  | Species | Test Result              | Exposure<br>Duration        |
|-------------------------------------|-----------|--|---------|--------------------------|-----------------------------|
| 4,7,10-Trioxatridecane-1,13-Diamine | Ingestion | Not classified for female reproduction | Rat     | NOAEL 600<br>mg/kg/day   | premating into lactation    |
| 4,7,10-Trioxatridecane-1,13-Diamine | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 600<br>mg/kg/day   | 59 days                     |
| 4,7,10-Trioxatridecane-1,13-Diamine | Ingestion | Not classified for development         | Rat     | NOAEL 600<br>mg/kg/day   | premating into lactation    |
| Amorphous Silica                    | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509<br>mg/kg/day   | 1 generation                |
| Amorphous Silica                    | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497<br>mg/kg/day   | 1 generation                |
| Amorphous Silica                    | Ingestion | Not classified for development         | Rat     | NOAEL 1,350<br>mg/kg/day | during<br>organogenesi<br>s |

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name  | Route      | Target Organ(s)        | Value  | Species                      | Test Result         | Exposure<br>Duration |
|---|------------|------------------------|--|------------------------------|---------------------|----------------------|
| 4,7,10-Trioxatridecane-<br>1,13-Diamine         | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar<br>health<br>hazards | NOAEL Not available |                      |
| 2,4,6-<br>tris((Dimethylamino)Meth<br>yl)Phenol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification |                              | NOAEL Not available |                      |
| Calcium Salt                                    | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar<br>health<br>hazards | NOAEL not available |                      |

Specific Target Organ Toxicity - repeated exposure

| Name                                    | Route     | Target Organ(s)   | Value          | Species | Test Result            | Exposure<br>Duration |
|---|-----------|---|----------------|---------|------------------------|----------------------|
| 4,7,10-Trioxatridecane-<br>1,13-Diamine | Ingestion | gastrointestinal tract<br>  heart   endocrine<br>system   bone, teeth,<br>nails, and/or hair  <br>hematopoietic<br>system   liver  <br>immune system  <br>muscles   nervous | Not classified | Rat     | NOAEL 600<br>mg/kg/day | 59 days              |

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|   |            | system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system   vascular<br>system  |                |       |                        |                       |
|---|------------|---|----------------|-------|------------------------|-----------------------|
| Amorphous Silica                                | Inhalation | respiratory system  <br>silicosis   | Not classified | Human | NOAEL Not available    | occupational exposure |
| 2,4,6-<br>tris((Dimethylamino)Meth<br>yl)Phenol | Dermal     | skin   liver   nervous<br>system   auditory<br>system  <br>hematopoietic<br>system   eyes | Not classified | Rat   | NOAEL 125<br>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 HF. 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.

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**

Hazard Not Otherwise Classified (HNOC)

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or 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: 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.

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 22-0521-9
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 Issue Date:
 10/04/22
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 11/23/21

## **SECTION 1: Identification**

### 1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Adhesive DP420 Black, Part B or Epoxy Adhesive 420 Black, Part B

## **Product Identification Numbers**

62-2778-8530-7, 62-2778-9530-6 7000000827, 7010309750

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

#### Recommended use

Part B of 2 part Adhesive, 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 2B. Skin Sensitizer: Category 1.

## 2.2. Label elements

### Signal word

Warning

## **Symbols**

Exclamation mark |

## **Pictograms**



#### **Hazard Statements**

Causes eye irritation.

May cause an allergic skin reaction.

## **Precautionary Statements**

### **Prevention:**

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

Wear protective gloves.

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.

### 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                |
|---|---------------|------------------------|
| Epoxy Resin                                   | 25068-38-6    | 70 - 90 Trade Secret * |
| Acrylic Polymer (NJTS Reg No. 04499600-5018P) | Trade Secret* | 1 - 20 Trade Secret *  |
| 3-(Trimethoxysilyl)propyl glycidyl ether      | 2530-83-8     | <= 0.5 Trade Secret *  |
| Carbon Black                                  | 1333-86-4     | < 0.1 Trade Secret *   |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

## **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

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

attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching).

#### 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         | Condition         |
|-------------------|-------------------|
| Aldehydes         | During Combustion |
| Carbon monoxide   | During Combustion |
| Carbon dioxide    | During Combustion |
| Hydrogen Chloride | 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.

Can di4: an

## **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

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/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray.

Page 3 of 10 Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

## 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. 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                | <b>Additional Comments</b> |
|--------------|------------|--------|---------------------------|----------------------------|
| Carbon Black | 1333-86-4  | ACGIH  | TWA(inhalable fraction):3 | A3: Confirmed animal       |
|              |            |        | mg/m3                     | carcin.                    |
| Carbon Black | 1333-86-4  | OSHA   | TWA:3.5 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:

Safety Glasses with side shields

Indirect Vented Goggles

## Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (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 - 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

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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

**Appearance** 

Physical stateLiquidColorBlack

Specific Physical Form: Paste

OdorVery Mild OdorOdor thresholdNo Data AvailablepHNot ApplicableMelting pointNo Data Available

Boiling Point >=200 °C

Flash Point >=340 °F [Test Method:Closed Cup]

Evaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.14 g/ml

Specific Gravity 1.14 [Ref Std: WATER=1]

Solubility in Water Nil

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data Available

Viscosity 22,000 - 45,000 centipoise [@ 73.4 °F] Hazardous Air Pollutants 0 % weight [Test Method: Calculated]

Molecular weight No Data Available

VOC Less H2O & Exempt Solvents 0 g/l [Test Method:calculated SCAQMD rule 443.1]

[Details: when used as intended with Part A]

**VOC Less H2O & Exempt Solvents** 6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as

supplied]

VOC Less H2O & Exempt Solvents 0 % [Test Method:calculated SCAQMD rule 443.1]

[Details: when used as intended with Part A]

# **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

## 10.5. Incompatible materials

Strong oxidizing agents

## 10.6. Hazardous decomposition products

**Substance** 

**Condition** 

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## **SECTION 11: Toxicological information**

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

### 11.1. Information on Toxicological effects

### Signs and Symptoms of Exposure

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

#### Inhalation:

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

### **Skin Contact:**

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.

## **Eve Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

## **Ingestion:**

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

## **Carcinogenicity:**

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

## **Toxicological Data**

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

## **Acute Toxicity**

| Name  | Route     | Species | Value  |
|---|-----------|---------|--|
| Overall product                               | Ingestion |         | No data available; calculated ATE >5,000 mg/kg |
| Epoxy Resin                                   | Dermal    | Rat     | LD50 > 1,600 mg/kg                             |
| Epoxy Resin                                   | Ingestion | Rat     | LD50 > 1,000 mg/kg                             |
| Acrylic Polymer (NJTS Reg No. 04499600-5018P) | Dermal    | Rabbit  | LD50 > 5,000 mg/kg                             |
| Acrylic Polymer (NJTS Reg No. 04499600-5018P) | Ingestion | Rat     | LD50 > 5,000 mg/kg                             |
| 3-(Trimethoxysilyl)propyl glycidyl ether      | Dermal    | Rabbit  | LD50 4,000 mg/kg                               |

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| 3-(Trimethoxysilyl)propyl glycidyl ether | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat    | LC50 > 5.3 mg/l     |
|--|---------------------------------------|--------|---------------------|
| 3-(Trimethoxysilyl)propyl glycidyl ether | Ingestion                             | Rat    | LD50 7,010 mg/kg    |
| Carbon Black                             | Dermal                                | Rabbit | LD50 > 3,000 mg/kg  |
| Carbon Black                             | Ingestion                             | Rat    | LD50 > 8,000  mg/kg |

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

| Name  | Species   | Value                     |
|---|-----------|---------------------------|
|   |           |                           |
| Epoxy Resin                                   | Rabbit    | Mild irritant             |
| Acrylic Polymer (NJTS Reg No. 04499600-5018P) | Professio | Minimal irritation        |
|   | nal       |                           |
|   | judgeme   |                           |
|   | nt        |                           |
| 3-(Trimethoxysilyl)propyl glycidyl ether      | Rabbit    | Mild irritant             |
| Carbon Black                                  | Rabbit    | No significant irritation |

**Serious Eye Damage/Irritation** 

| Name  | Species   | Value                     |
|---|-----------|---------------------------|
|   |           |                           |
| Epoxy Resin                                   | Rabbit    | Moderate irritant         |
| Acrylic Polymer (NJTS Reg No. 04499600-5018P) | Professio | Mild irritant             |
|   | nal       |                           |
|   | judgeme   |                           |
|   | nt        |                           |
| 3-(Trimethoxysilyl)propyl glycidyl ether      | Rabbit    | Corrosive                 |
| Carbon Black                                  | Rabbit    | No significant irritation |

## **Skin Sensitization**

| Name                                     | Species | Value          |
|--|---------|----------------|
| Epoxy Resin                              | Human   | Sensitizing    |
|  | and     |                |
|  | animal  |                |
| 3-(Trimethoxysilyl)propyl glycidyl ether | Guinea  | Not classified |
|  | pig     |                |

**Respiratory Sensitization** 

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

Germ Cell Mutagenicity

| Name                                     | Route    | Value  |  |  |
|--|----------|--|--|--|
| Epoxy Resin                              | In vivo  | Not mutagenic  |  |  |
| Epoxy Resin                              | In Vitro | Some positive data exist, but the data are not sufficient for classification |  |  |
| 3-(Trimethoxysilyl)propyl glycidyl ether | In vivo  | Not mutagenic  |  |  |
| 3-(Trimethoxysilyl)propyl glycidyl ether | In Vitro | Some positive data exist, but the data are not sufficient for classification |  |  |
| Carbon Black                             | In Vitro | Not mutagenic  |  |  |
| Carbon Black                             | In vivo  | Some positive data exist, but the data are not sufficient for classification |  |  |

Carcinogenicity

| euremogemeny                             |        |         |  |
|--|--------|---------|--|
| Name                                     | Route  | Species | Value  |
| Epoxy Resin                              | Dermal | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| 3-(Trimethoxysilyl)propyl glycidyl ether | Dermal | Mouse   | Not carcinogenic   |
| Carbon Black                             | Dermal | Mouse   | Not carcinogenic   |

| Carbon Black | Ingestion  | Mouse | Not carcinogenic |
|--------------|------------|-------|------------------|
| Carbon Black | Inhalation | Rat   | Carcinogenic     |

## **Reproductive Toxicity**

Reproductive and/or Developmental Effects

| Name                                     | Route     | Value                                  | Species | Test Result              | Exposure<br>Duration        |
|--|-----------|--|---------|--------------------------|-----------------------------|
| Epoxy Resin                              | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750<br>mg/kg/day   | 2 generation                |
| Epoxy Resin                              | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750<br>mg/kg/day   | 2 generation                |
| Epoxy Resin                              | Dermal    | Not classified for development         | Rabbit  | NOAEL 300<br>mg/kg/day   | during<br>organogenesi<br>s |
| Epoxy Resin                              | Ingestion | Not classified for development         | Rat     | NOAEL 750<br>mg/kg/day   | 2 generation                |
| 3-(Trimethoxysilyl)propyl glycidyl ether | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000<br>mg/kg/day | 1 generation                |
| 3-(Trimethoxysilyl)propyl glycidyl ether | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000<br>mg/kg/day | 1 generation                |
| 3-(Trimethoxysilyl)propyl glycidyl ether | Ingestion | Not classified for development         | Rat     | NOAEL 3,000<br>mg/kg/day | during<br>organogenesi<br>s |

## Target Organ(s)

## **Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure** 

| Name                                     | Route      | Target Organ(s)  | Value          | Species | Test Result                 | Exposure<br>Duration  |
|--|------------|--|----------------|---------|-----------------------------|-----------------------|
| Epoxy Resin                              | Dermal     | liver  | Not classified | Rat     | NOAEL<br>1,000<br>mg/kg/day | 2 years               |
| Epoxy Resin                              | Dermal     | nervous system   | Not classified | Rat     | NOAEL<br>1,000<br>mg/kg/day | 13 weeks              |
| Epoxy Resin                              | Ingestion  | auditory system  <br>heart   endocrine<br>system  <br>hematopoietic<br>system   liver   eyes  <br>kidney and/or<br>bladder   | Not classified | Rat     | NOAEL<br>1,000<br>mg/kg/day | 28 days               |
| 3-(Trimethoxysilyl)propyl glycidyl ether | Ingestion  | heart   endocrine<br>system   bone, teeth,<br>nails, and/or hair  <br>hematopoietic<br>system   liver  <br>immune system  <br>nervous system  <br>kidney and/or<br>bladder   respiratory<br>system | Not classified | Rat     | NOAEL<br>1,000<br>mg/kg/day | 28 days               |
| Carbon Black                             | Inhalation | pneumoconiosis   | Not classified | Human   | NOAEL Not available         | 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.

on this material and/of 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.

## 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

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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