



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 06/12/24  | <b>Supersedes Date:</b> | 10/13/23 |

### Product identifier

Bondo® Metal Reinforced Filler, 90451, 90452

### ID Number(s):

60-4550-8322-4

7010412223

### Recommended use

Automotive

### Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | Construction and Home Improvement Markets |

|                   |   |
|-------------------|---|
| <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:**

33-5242-4, 44-4760-3

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 33-5242-4 | <b>Version Number:</b>  | 6.00     |
| <b>Issue Date:</b>     | 06/12/25  | <b>Supersedes Date:</b> | 03/18/24 |

### SECTION 1: Identification

#### 1.1. Product identifier

Bondo® Metal Reinforced Filler, 90451, 90452, 90451C

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

##### Recommended use

Automotive

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 2B.

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

Carcinogenicity: Category 1A.

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

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

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Health Hazard |

**Pictograms****Hazard Statements**

Flammable liquid and vapor.

Causes eye irritation.

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

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause cancer.

Causes damage to organs:

liver |  
sensory organs |

Causes damage to organs through prolonged or repeated exposure:

respiratory system |  
sensory organs |

May cause damage to organs through prolonged or repeated exposure:

liver |

**Precautionary Statements****General:**

Keep out of reach of children.

**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

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

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye/face protection.

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

Wash thoroughly after handling.

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

**Response:**

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

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

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

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

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 IF exposed or concerned: Get medical advice/attention.  
 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

Store in a well-ventilated place. Keep cool.  
 Store locked up.

**Disposal:**

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

1% of the mixture consists of ingredients of unknown acute oral toxicity.  
 1% of the mixture consists of ingredients of unknown acute dermal toxicity.  
 1% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| <b>Ingredient</b>           | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|-----------------------------|-------------------|------------------------|
| Styrene Monomer             | 100-42-5          | 10 - 30 Trade Secret * |
| Talc                        | 14807-96-6        | 10 - 30 Trade Secret * |
| 2-hydroxyethyl methacrylate | 868-77-9          | 0.1 - 1 Trade Secret * |
| COBALT OCTOATE              | 136-52-7          | 0.1 - 1 Trade Secret * |
| Butanediol diglycidyl ether | 2425-79-8         | 0.1 - 1 Trade Secret * |
| Quartz Silica               | 14808-60-7        | < 0.4                  |
| N,N-DIETHYLANILINE          | 91-66-7           | < 0.2                  |

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

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

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

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**

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

**If Swallowed:**

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

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

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

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

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

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

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from

heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

| Ingredient      | C.A.S. No. | Agency | Limit type  | Additional Comments                       |
|-----------------|------------|--------|---|---|
| Styrene Monomer | 100-42-5   | ACGIH  | TWA:10 ppm;STEL:20 ppm  | A3: Confirmed animal carcin., Ototoxicant |
| Styrene Monomer | 100-42-5   | OSHA   | TWA:100 ppm;CEIL:200 ppm  |   |
| Talc            | 14807-96-6 | ACGIH  | TWA(respirable fraction):2 mg/m3  | A4: Not class. as human carcin            |
| TALC            | 14807-96-6 | OSHA   | TWA - Use asbestos limits:  |   |
| Talc            | 14807-96-6 | OSHA   | TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft.                                     |   |
| Quartz Silica   | 14808-60-7 | ACGIH  | TWA(respirable fraction):0.025 mg/m3  | A2: Suspected human carcin.               |
| Quartz Silica   | 14808-60-7 | OSHA   | TWA Table Z-1(respirable):0.05 mg/m3;TWA Table Z-3(respirable):0.1 mg/m3;TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.) |   |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

## 8.2.2. Personal protective equipment (PPE)

### Eye/face protection

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

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 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 state  
Color

Liquid  
Black

#### Specific Physical Form:

Putty

#### Odor

Strong Solvent

#### Odor threshold

*No Data Available*

#### pH

*Not Applicable*

#### Melting point

*No Data Available*

#### Boiling Point

295 °F

#### Flash Point

90 °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

4.5 mmHg

#### Vapor Density

*No Data Available*

#### Density

10.8 lb/gal

#### Specific Gravity

1.3

#### Solubility in Water

Nil

#### Solubility- non-water

*Not Applicable*

|   |   |
|---|---|
| Partition coefficient: n-octanol/ water | No Data Available                                       |
| Autoignition temperature                | No Data Available                                       |
| Decomposition temperature               | Not Applicable  |
| Viscosity                               | 360,000 - 440,000 centipoise                            |
| Volatile Organic Compounds              | 18.7 % weight [Test Method:calculated per CARB title 2] |
| Volatile Organic Compounds              | 241.2 g/l [Test Method:calculated SCAQMD rule 443.1]    |
| Percent volatile                        | 18.7 % weight   |
| VOC Less H2O & Exempt Solvents          | 241.2 g/l [Test Method:calculated SCAQMD rule 443.1]    |

## 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

Strong acids  
Strong oxidizing agents  
Strong bases  
Alkali and alkaline earth metals

### 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.

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

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.

**Eye 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.

May cause additional health effects (see below).

**Additional Health Effects:**

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

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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

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

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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

**Reproductive/Developmental Toxicity:**

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

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| Ingredient  | CAS No.    | Class Description              | Regulation                                  |
|---|------------|--------------------------------|---|
| Silica, Crystalline (Respirable Size)                           | 14808-60-7 | Known To Be Human Carcinogen.  | National Toxicology Program Carcinogens     |
| Talc containing asbestiform fibres                              | 14807-96-6 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Cobalt and cobalt compounds that release cobalt ions in vivo    | 136-52-7   | Anticipated human carcinogen   | National Toxicology Program Carcinogens     |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Styrene   | 100-42-5   | Grp. 2A: Probable human carc.  | International Agency for Research on Cancer |
| Styrene   | 100-42-5   | Anticipated human carcinogen   | National Toxicology Program Carcinogens     |
| Talc  | 14807-96-6 | Grp. 2A: Probable 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             | Dermal                         |        | No data available; calculated ATE >5,000 mg/kg |
| Overall product             | Inhalation-Vapor(4 hr)         |        | No data available; calculated ATE >50 mg/l     |
| Overall product             | Ingestion                      |        | No data available; calculated ATE >5,000 mg/kg |
| Talc                        | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg             |
| Talc                        | Ingestion                      |        | LD50 estimated to be > 5,000 mg/kg             |
| Styrene Monomer             | Dermal                         | Rat    | LD50 > 2,000 mg/kg                             |
| Styrene Monomer             | Inhalation-Vapor (4 hours)     | Rat    | LC50 11.8 mg/l                                 |
| Styrene Monomer             | Ingestion                      | Rat    | LD50 5,000 mg/kg                               |
| 2-hydroxyethyl methacrylate | Dermal                         | Rabbit | LD50 > 5,000 mg/kg                             |
| 2-hydroxyethyl methacrylate | Ingestion                      | Rat    | LD50 5,564 mg/kg                               |
| Butanediol diglycidyl ether | Dermal                         | Rabbit | LD50 1,130 mg/kg                               |
| Butanediol diglycidyl ether | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 11.3 mg/l                               |
| Butanediol diglycidyl ether | Ingestion                      | Rat    | LD50 1,118 mg/kg                               |
| Quartz Silica               | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg             |
| Quartz Silica               | Ingestion                      |        | LD50 estimated to be > 5,000 mg/kg             |
| COBALT OCTOATE              | Dermal                         |        | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| COBALT OCTOATE              | Ingestion                      | Rat    | LD50 3,129 mg/kg                               |
| N,N-DIETHYLANILINE          | Dermal                         | Rabbit | LD50 > 468 mg/kg                               |
| N,N-DIETHYLANILINE          | Inhalation-Vapor (4 hours)     | Rat    | LC50 1.9 mg/l                                  |
| N,N-DIETHYLANILINE          | Ingestion                      | Rat    | LD50 606 mg/kg                                 |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                        | Species                | Value                     |
|-----------------------------|------------------------|---------------------------|
| Talc                        | Rabbit                 | No significant irritation |
| Styrene Monomer             | Professional judgement | Mild irritant             |
| 2-hydroxyethyl methacrylate | Rabbit                 | Minimal irritation        |
| Butanediol diglycidyl ether | Rabbit                 | No significant irritation |
| Quartz Silica               | Professional judgement | No significant irritation |
| COBALT OCTOATE              | In vitro data          | No significant irritation |
| N,N-DIETHYLANILINE          | Rabbit                 | Mild irritant             |

#### Serious Eye Damage/Irritation

| Name                        | Species                | Value                     |
|-----------------------------|------------------------|---------------------------|
| Talc                        | Rabbit                 | No significant irritation |
| Styrene Monomer             | Professional judgement | Moderate irritant         |
| 2-hydroxyethyl methacrylate | Rabbit                 | Moderate irritant         |
| Butanediol diglycidyl ether | Rabbit                 | Corrosive                 |
| COBALT OCTOATE              | Rabbit                 | Severe irritant           |
| N,N-DIETHYLANILINE          | Rabbit                 | Mild irritant             |

#### Skin Sensitization

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|                             |                   |                |
|-----------------------------|-------------------|----------------|
| Styrene Monomer             | Guinea pig        | Not classified |
| 2-hydroxyethyl methacrylate | Human and animal  | Sensitizing    |
| Butanediol diglycidyl ether | Guinea pig        | Sensitizing    |
| COBALT OCTOATE              | similar compounds | Sensitizing    |
| N,N-DIETHYLANILINE          | Guinea pig        | Not classified |

### Respiratory Sensitization

| Name           | Species           | Value          |
|----------------|-------------------|----------------|
| Talc           | Human             | Not classified |
| COBALT OCTOATE | similar compounds | Sensitizing    |

### Germ Cell Mutagenicity

| Name                        | Route    | Value  |
|-----------------------------|----------|--|
| Talc                        | In Vitro | Not mutagenic  |
| Talc                        | In vivo  | Not mutagenic  |
| Styrene Monomer             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer             | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| 2-hydroxyethyl methacrylate | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Butanediol diglycidyl ether | In vivo  | Not mutagenic  |
| Butanediol diglycidyl ether | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica               | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica               | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| N,N-DIETHYLANILINE          | In vivo  | Not mutagenic  |
| N,N-DIETHYLANILINE          | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                        | Route      | Species           | Value  |
|-----------------------------|------------|-------------------|--|
| Talc                        | Inhalation | Rat               | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer             | Ingestion  | Mouse             | Carcinogenic   |
| Styrene Monomer             | Inhalation | Human and animal  | Carcinogenic   |
| Butanediol diglycidyl ether | Dermal     | Mouse             | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica               | Inhalation | Human and animal  | Carcinogenic   |
| COBALT OCTOATE              | Inhalation | similar compounds | Carcinogenic   |

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name                        | Route      | Value                                  | Species                 | Test Result           | Exposure Duration              |
|-----------------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| Talc                        | Ingestion  | Not classified for development         | Rat                     | NOAEL 1,600 mg/kg     | during organogenesis           |
| Styrene Monomer             | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 21 mg/kg/day    | 3 generation                   |
| Styrene Monomer             | Inhalation | Not classified for female reproduction | Rat                     | NOAEL 2.1 mg/l        | 2 generation                   |
| Styrene Monomer             | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 2.1 mg/l        | 2 generation                   |
| Styrene Monomer             | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 400 mg/kg/day   | 60 days                        |
| Styrene Monomer             | Ingestion  | Not classified for development         | Rat                     | NOAEL 400 mg/kg/day   | during gestation               |
| Styrene Monomer             | Inhalation | Not classified for development         | Multiple animal species | NOAEL 2.1 mg/l        | during gestation               |
| 2-hydroxyethyl methacrylate | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| 2-hydroxyethyl methacrylate | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 1,000 mg/kg/day | 49 days                        |
| 2-hydroxyethyl methacrylate | Ingestion  | Not classified for development         | Rat                     | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Butanediol diglycidyl ether | Ingestion  | Not classified for development         | Rat                     | NOAEL 300 mg/kg/day   | during gestation               |
| Butanediol diglycidyl ether | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 200 mg/kg/day   | prematuring into lactation     |
| Butanediol diglycidyl ether | Ingestion  | Toxic to male reproduction             | similar compounds       | NOAEL 55 mg/kg/day    | 2 generation                   |
| COBALT OCTOATE              | Ingestion  | Toxic to male reproduction             | similar compounds       | NOAEL Not available   |                                |
| COBALT OCTOATE              | Inhalation | Toxic to male reproduction             | similar compounds       | NOAEL Not available   |                                |
| COBALT OCTOATE              | Ingestion  | Toxic to development                   | similar compounds       | NOAEL Not available   |                                |
| N,N-DIETHYLANILINE          | Ingestion  | Not classified for development         | Rat                     | NOAEL 250 mg/kg/day   | during organogenesis           |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name            | Route      | Target Organ(s)                   | Value                             | Species                 | Test Result         | Exposure Duration     |
|-----------------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------------|-----------------------|
| Styrene Monomer | Inhalation | auditory system                   | Causes damage to organs           | Multiple animal species | LOAEL 4.3 mg/l      | not available         |
| Styrene Monomer | Inhalation | liver                             | Causes damage to organs           | Mouse                   | LOAEL 2.1 mg/l      | not available         |
| Styrene Monomer | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human                   | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | respiratory irritation            | May cause respiratory irritation  | Human and animal        | NOAEL Not available |                       |
| Styrene Monomer | Inhalation | endocrine system                  | Not classified                    | Rat                     | NOAEL Not available | not available         |
| Styrene Monomer | Inhalation | kidney and/or bladder             | Not classified                    | Multiple animal species | NOAEL 2.1 mg/l      | not available         |

|                             |            |                        |  |                        |                     |  |
|-----------------------------|------------|------------------------|--|------------------------|---------------------|--|
| Butanediol diglycidyl ether | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |  |
| COBALT OCTOATE              | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |  |
| N,N-DIETHYLANILINE          | 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     |
|-----------------------------|------------|--|--|-------------------------|---------------------|-----------------------|
| Talc                        | Inhalation | pneumoconiosis   | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |
| Talc                        | Inhalation | pulmonary fibrosis   respiratory system  | Not classified   | Rat                     | NOAEL 18 mg/m3      | 113 weeks             |
| Styrene Monomer             | Inhalation | auditory system  | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL not available | occupational exposure |
| Styrene Monomer             | Inhalation | eyes   | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |
| Styrene Monomer             | Inhalation | liver  | May cause damage to organs though prolonged or repeated exposure             | Mouse                   | LOAEL 0.85 mg/l     | 13 weeks              |
| Styrene Monomer             | Inhalation | nervous system   | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 1.1 mg/l      | not available         |
| Styrene Monomer             | Inhalation | hematopoietic system   | Not classified   | Rat                     | NOAEL 0.85 mg/l     | 7 days                |
| Styrene Monomer             | Inhalation | endocrine system   | Not classified   | Rat                     | NOAEL 0.6 mg/l      | 10 days               |
| Styrene Monomer             | Inhalation | respiratory system   | Not classified   | Multiple animal species | LOAEL 0.09 mg/l     | not available         |
| Styrene Monomer             | Inhalation | heart   gastrointestinal tract   bone, teeth, nails, and/or hair   muscles   kidney and/or bladder   | Not classified   | Multiple animal species | NOAEL 4.3 mg/l      | 2 years               |
| Styrene Monomer             | Ingestion  | nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 500 mg/kg/day | 8 weeks               |
| Styrene Monomer             | Ingestion  | immune system  | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | not available         |
| Styrene Monomer             | Ingestion  | liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 677 mg/kg/day | 6 months              |
| Styrene Monomer             | Ingestion  | hematopoietic system   | Not classified   | Dog                     | NOAEL 600 mg/kg/day | 470 days              |
| Styrene Monomer             | Ingestion  | heart   respiratory system   | Not classified   | Rat                     | NOAEL 35 mg/kg/day  | 105 weeks             |
| Butanediol diglycidyl ether | Ingestion  | hematopoietic system   liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   respiratory system   vascular system | Not classified   | Rat                     | NOAEL 400 mg/kg/day | 28 days               |
| Quartz Silica               | Inhalation | silicosis  | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |

|                    |            |                               |  |                   |                     |         |
|--------------------|------------|-------------------------------|--|-------------------|---------------------|---------|
| COBALT OCTOATE     | Inhalation | respiratory system            | Causes damage to organs through prolonged or repeated exposure | similar compounds | NOAEL Not available |         |
| N,N-DIETHYLANILINE | Ingestion  | hematopoietic system          | Causes damage to organs through prolonged or repeated exposure | Rat               | LOAEL 10 mg/kg/day  | 28 days |
| N,N-DIETHYLANILINE | Ingestion  | liver   kidney and/or bladder | Not classified   | Rat               | NOAEL 250 mg/kg/day | 28 days |

**Aspiration Hazard**

| Name            | Value             |
|-----------------|-------------------|
| Styrene Monomer | Aspiration hazard |

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

**SECTION 12: Ecological information**

**Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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

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

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

**SECTION 14: Transport Information**

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

**SECTION 15: Regulatory information**

**15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

**Physical Hazards**

Flammable (gases, aerosols, liquids, or solids)

**Health Hazards**

Carcinogenicity

|  |
|--|
| Reproductive toxicity  |
| Respiratory or Skin Sensitization                            |
| Serious eye damage or eye irritation                         |
| Specific target organ toxicity (single or repeated exposure) |

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

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u>       |
|-------------------|------------------|----------------------|
| Styrene Monomer   | 100-42-5         | Trade Secret 10 - 30 |

**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: 3 Instability: 0 Special Hazards: None**

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

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 33-5242-4 | <b>Version Number:</b>  | 6.00     |
| <b>Issue Date:</b>     | 06/12/25  | <b>Supersedes Date:</b> | 03/18/24 |

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## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 04/27/26  | <b>Supersedes Date:</b> | 09/04/25 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Bondo® Fiberglass Resin Liquid Hardener, 20126, 912, 912M, 912C, 912ES, 401, 401C, 402, 402C, 402T, 402Z, 404, 404C, 404Z, 420, 420C, 420E, 420K, 420T, 422, 422C, 411, 609, 912, 912M, 912C, 912ES, 7653081

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

##### Recommended use

Automotive, Curing Agent

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Organic Peroxide: Type D.  
Acute Toxicity (oral): Category 4.  
Skin Corrosion/Irritation: Category 1C.  
Serious Eye Damage/Irritation: Category 1.  
Reproductive Toxicity: Category 2.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame |Corrosion |Exclamation mark |Health Hazard |

## Pictograms



## Hazard Statements

Heating may cause a fire.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Suspected of damaging fertility or the unborn child.

## Precautionary statements

### General:

Keep out of reach of children.

### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep only in original packaging.

Keep cool.

Ground and bond container and receiving equipment.

Do not breathe vapors or dust.

Wash exposed skin thoroughly after handling.

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

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

### Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

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

Continue rinsing.

IF exposed or concerned: Immediately call a POISON CENTER or doctor.

Wash contaminated clothing before reuse.

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

### Storage:

Store in a well-ventilated place.

Store locked up.

Protect from sunlight.

Store at temperatures not exceeding 77°F (25°C).

Store separately.

### Disposal:

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

## 2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns.

3% of the mixture consists of ingredients of unknown acute inhalation toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient                                    | C.A.S. No. | % by Wt                |
|---|------------|------------------------|
| Methyl Ethyl Ketone Peroxide                  | 1338-23-4  | 15 - 40 Trade Secret * |
| 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate | 6846-50-0  | 10 - 30 Trade Secret * |
| Hydrogen Peroxide                             | 7722-84-1  | 1 - 5 Trade Secret *   |
| Methyl Ethyl Ketone                           | 78-93-3    | 1 - 5 Trade Secret *   |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation:**

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

**Skin Contact:**

Immediately 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). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

#### Hazardous Decomposition or By-Products

Substance

Carbon monoxide  
Carbon dioxide  
Irritant Vapors or Gases

Condition

During Combustion  
During Combustion  
During Combustion

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

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

for exposed areas of the head.

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 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 using non-sparking tools. 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

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. 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 in a well-ventilated place. Protect from sunlight. Store at temperatures not exceeding 25°C/77°F. Keep cool. Keep only in original container. Store away from acids. Store away from oxidizing agents. Store separately. Keep/store away from clothing and other combustible materials.

## 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 |
|------------------------------|------------|--------|--------------|---------------------|
| Methyl Ethyl Ketone Peroxide | 1338-23-4  | ACGIH  | CEIL:0.2 ppm |                     |

|                     |           |       |                         |                                |
|---------------------|-----------|-------|-------------------------|--------------------------------|
| Hydrogen Peroxide   | 7722-84-1 | ACGIH | TWA:1 ppm               | A3: Confirmed animal carcin.   |
| Hydrogen Peroxide   | 7722-84-1 | OSHA  | TWA:1.4 mg/m3(1 ppm)    |                                |
| Methyl Ethyl Ketone | 78-93-3   | ACGIH | TWA:75 ppm;STEL:150 ppm | Danger of cutaneous absorption |
| Methyl Ethyl Ketone | 78-93-3   | OSHA  | TWA:590 mg/m3(200 ppm)  |                                |

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 OSHA : United States Department of Labor - Occupational Safety and Health Administration  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

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

### 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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                                    | Liquid  |
| Color   | Colorless   |
| Odor  | Slight Odor   |
| Odor threshold                                    | No Data Available   |
| pH  | No Data Available   |
| Melting point/Freezing point                      | No Data Available   |
| Boiling point/Initial boiling point/Boiling range | 117.8 °C  |
| Flash Point                                       | > 93.3 °C [Test Method:Closed Cup] [Details:No flash to boiling point.] |
| Evaporation rate                                  | No Data Available   |
| Flammability                                      | Organic Peroxide: Type D.   |
| Flammable Limits(LEL)                             | No Data Available   |
| Flammable Limits(UEL)                             | No Data Available   |
| Vapor Pressure                                    | No Data Available   |
| Relative Vapor Density                            | > 1 Units not avail. or not appl.                                       |
| Density   | 1.1 g/ml  |
| Relative Density                                  | 1.1 [Ref Std:WATER=1]   |
| Water solubility                                  | Negligible  |
| Solubility- non-water                             | No Data Available   |
| Partition coefficient: n-octanol/ water           | No Data Available   |
| Autoignition temperature                          | No Data Available   |
| Decomposition temperature                         | No Data Available   |
| Kinematic Viscosity                               | No Data Available   |
| Volatile Organic Compounds                        | 39 g/l [Test Method:calculated SCAQMD rule 443.1]                       |
| Volatile Organic Compounds                        | 3.5 % weight [Test Method:Tested per ASTM protocol]                     |
| Percent volatile                                  | 45 % weight   |
| VOC Less H2O & Exempt Solvents                    | 39 g/l [Test Method:calculated SCAQMD rule 443.1]                       |

|                          |                |
|--------------------------|----------------|
| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Light  
Sparks and/or flames  
Temperatures above the boiling point

### 10.5. Incompatible materials

Strong oxidizing agents  
Alkali and alkaline earth metals  
Strong acids

## 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation:

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

#### Skin Contact:

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. May cause additional health effects (see below).

#### 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:

Harmful if swallowed. Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause additional health effects (see below).

#### Additional Health Effects:

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

Dermal Effects: Signs/symptoms may include changes in skin pigmentation and/or coloration.

#### 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 | Inhalation-Vapor(4 hr) |         | No data available; calculated ATE >20 - =50 mg/l |

|   |                                |                   |   |
|---|--------------------------------|-------------------|---|
| Overall product                               | Ingestion                      |                   | No data available; calculated ATE >300 - =2,000 mg/kg |
| Methyl Ethyl Ketone Peroxide                  | Dermal                         | Rabbit            | LD50 4,000 mg/kg                                      |
| Methyl Ethyl Ketone Peroxide                  | Inhalation-Vapor (4 hours)     | Rat               | LC50 15.4 mg/l  |
| Methyl Ethyl Ketone Peroxide                  | Ingestion                      | Rat               | LD50 484 mg/kg  |
| Methyl Ethyl Ketone Peroxide                  | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 1.5 mg/l   |
| 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate | Dermal                         | Guinea pig        | LD50 > 18,800 mg/kg                                   |
| 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 8 mg/l   |
| 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate | Ingestion                      | Rat               | LD50 > 3,200 mg/kg                                    |
| Methyl Ethyl Ketone                           | Dermal                         | Rabbit            | LD50 > 8,050 mg/kg                                    |
| Methyl Ethyl Ketone                           | Inhalation-Vapor (4 hours)     | Rat               | LC50 34.5 mg/l  |
| Methyl Ethyl Ketone                           | Ingestion                      | Rat               | LD50 2,737 mg/kg                                      |
| Hydrogen Peroxide                             | Dermal                         | Rabbit            | LD50 > 2,000 mg/kg                                    |
| Hydrogen Peroxide                             | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 2 mg/l   |
| Hydrogen Peroxide                             | Ingestion                      | Rat               | LD50 1,193 mg/kg                                      |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                         | Species | Value              |
|------------------------------|---------|--------------------|
| Methyl Ethyl Ketone Peroxide | Rabbit  | Corrosive          |
| Methyl Ethyl Ketone          | Rabbit  | Minimal irritation |
| Hydrogen Peroxide            | Rabbit  | Corrosive          |

#### Serious Eye Damage/Irritation

| Name                         | Species | Value           |
|------------------------------|---------|-----------------|
| Methyl Ethyl Ketone Peroxide | Human   | Corrosive       |
| Methyl Ethyl Ketone          | Rabbit  | Severe irritant |
| Hydrogen Peroxide            | Rabbit  | Corrosive       |

#### Skin Sensitization

| Name                         | Species    | Value          |
|------------------------------|------------|----------------|
| Methyl Ethyl Ketone Peroxide | Human      | Not classified |
| Hydrogen Peroxide            | 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  |
|------------------------------|----------|--|
| Methyl Ethyl Ketone Peroxide | In vivo  | Not mutagenic  |
| Methyl Ethyl Ketone Peroxide | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methyl Ethyl Ketone          | In Vitro | Not mutagenic  |
| Hydrogen Peroxide            | In vivo  | Not mutagenic  |
| Hydrogen Peroxide            | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                         | Route         | Species                 | Value  |
|------------------------------|---------------|-------------------------|--|
| Methyl Ethyl Ketone Peroxide | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Methyl Ethyl Ketone          | Inhalation    | Human                   | Not carcinogenic   |
| Hydrogen Peroxide            | Dermal        | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Hydrogen Peroxide            | Ingestion     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name  | Route      | Value                                  | Species                 | Test Result         | Exposure Duration |
|---|------------|--|-------------------------|---------------------|-------------------|
| Methyl Ethyl Ketone Peroxide                  | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 180 mg/kg/day | 2 generation      |
| Methyl Ethyl Ketone Peroxide                  | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 180 mg/kg/day | 2 generation      |
| Methyl Ethyl Ketone Peroxide                  | Ingestion  | Not classified for development         | Multiple animal species | NOAEL 200 mg/kg/day | during gestation  |
| 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate | Ingestion  | Toxic to development                   | Rabbit                  | NOAEL 300 mg/kg/day | during gestation  |
| Methyl Ethyl Ketone                           | Inhalation | Not classified for development         | Rat                     | LOAEL 8.8 mg/l      | during gestation  |
| Hydrogen Peroxide                             | Ingestion  | Not classified for female reproduction | Rat                     | LOAEL 5 mg/kg/day   | 6 months          |
| Hydrogen Peroxide                             | Ingestion  | Not classified for male reproduction   | Rat                     | LOAEL 5 mg/kg/day   | 6 months          |
| Hydrogen Peroxide                             | Ingestion  | Not classified for development         | Rat                     | LOAEL 5 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      |
|------------------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| Methyl Ethyl Ketone Peroxide | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                         | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | official classification | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |
| Methyl Ethyl Ketone          | Ingestion  | liver                             | Not classified   | Rat                     | NOAEL Not available | not applicable         |
| Methyl Ethyl Ketone          | Ingestion  | kidney and/or bladder             | Not classified   | Rat                     | LOAEL 1,080 mg/kg   | not applicable         |
| Hydrogen Peroxide            | Inhalation | respiratory irritation            | May cause respiratory irritation   | Human                   | NOAEL Not available |                        |
| Hydrogen Peroxide            | Ingestion  | nervous system                    | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name                         | Route      | Target Organ(s)                 | Value          | Species    | Test Result          | Exposure Duration |
|------------------------------|------------|---------------------------------|----------------|------------|----------------------|-------------------|
| Methyl Ethyl Ketone Peroxide | Ingestion  | hematopoietic system            | Not classified | Rat        | NOAEL 150 mg/kg/day  | 90 days           |
| Methyl Ethyl Ketone Peroxide | Ingestion  | nervous system                  | Not classified | Rat        | NOAEL 150 mg/kg/day  | 90 days           |
| Methyl Ethyl Ketone Peroxide | Ingestion  | eyes                            | Not classified | Rat        | NOAEL 150 mg/kg/day  | 90 days           |
| Methyl Ethyl Ketone          | Dermal     | nervous system                  | Not classified | Guinea pig | NOAEL Not available  | 31 weeks          |
| Methyl Ethyl Ketone          | Inhalation | liver                           | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | kidney and/or bladder           | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | heart                           | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | endocrine system                | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | gastrointestinal tract          | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | hematopoietic system            | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | immune system                   | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Inhalation | muscles                         | Not classified | Rat        | NOAEL 14.7 mg/l      | 90 days           |
| Methyl Ethyl Ketone          | Ingestion  | liver                           | Not classified | Rat        | NOAEL Not available  | 7 days            |
| Methyl Ethyl Ketone          | Ingestion  | nervous system                  | Not classified | Rat        | NOAEL 173 mg/kg/day  | 90 days           |
| Hydrogen Peroxide            | Ingestion  | hematopoietic system            | Not classified | Rat        | NOEL 0.005 mg/kg/day | 6 months          |
| Hydrogen Peroxide            | Ingestion  | liver                           | Not classified | Mouse      | NOAEL Not available  | 35 weeks          |
| Hydrogen Peroxide            | Ingestion  | kidney and/or bladder           | Not classified | Mouse      | NOAEL Not available  | 35 weeks          |

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information**

**Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D035 (Methyl ethyl ketone)

## SECTION 14: Transport Information

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

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Organic peroxide

##### Health Hazards

Acute toxicity

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

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: Oxidizer

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

**HMIS Hazard Classification**

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

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

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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