



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Glass Pre-Treatment, 39903

#### Product Identification Numbers

60-4551-1113-2, 60-4551-1489-6  
7100237737

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

##### Recommended use

Automotive

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Flammable Liquid: Category 2.

Serious Eye Damage/Irritation: Category 2A.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Exclamation mark |

##### Pictograms

**Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Keep container tightly closed.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves and eye/face protection.  
Wash thoroughly after handling.

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

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

**Disposal:**

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

**2.3. Hazards not otherwise classified**

Repeated exposure may cause skin dryness or cracking.

## SECTION 3: Composition/information on ingredients

| Ingredient                               | C.A.S. No. | % by Wt                |
|--|------------|------------------------|
| Isopropyl Alcohol                        | 67-63-0    | 80 - 95 Trade Secret * |
| Water                                    | 7732-18-5  | 5 - 10 Trade Secret *  |
| 3-(trimethoxysilyl)propyl glycidyl ether | 2530-83-8  | < 1 Trade Secret *     |

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

secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin Contact:

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

#### Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

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

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

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

### 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.

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

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

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 water. 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 away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

| Ingredient        | C.A.S. No. | Agency | Limit type                          | Additional Comments            |
|-------------------|------------|--------|-------------------------------------|--------------------------------|
| Isopropyl Alcohol | 67-63-0    | ACGIH  | TWA:200 ppm;STEL:400 ppm            | A4: Not class. as human carcin |
| Isopropyl Alcohol | 67-63-0    | OSHA   | TWA:980 mg/m <sup>3</sup> (400 ppm) |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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

##### Eye/face protection

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

Indirect Vented Goggles

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

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

Neoprene

Nitrile Rubber

**Respiratory protection**

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

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

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

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

**Physical state**

Liquid

**Color**

Colorless

**Odor**

Alcohol

**Odor threshold**

*No Data Available*

**pH**

5 - 6

**Melting point**

*Not Applicable*

**Boiling Point**

180 °F

**Flash Point**

53 °F [*Test Method: Closed Cup*]

**Evaporation rate**

1.2

**Flammability (solid, gas)**

Not Applicable

**Flammable Limits(LEL)**

2 %

**Flammable Limits(UEL)**

12.5 %

**Vapor Pressure**

43 mmHg [*@ 25 °C*]

**Vapor Density**

2.07 [*Ref Std: AIR=1*]

**Density**

0.8 g/ml

**Specific Gravity**

0.8 [*@ 60 °F*]

**Solubility In Water**

100 %

**Solubility- non-water**

*No Data Available*

**Partition coefficient: n-octanol/ water**

*No Data Available*

**Autoignition temperature**

*No Data Available*

**Decomposition temperature**

*No Data Available*

**Viscosity**

<= 3 centipoise

**Hazardous Air Pollutants**

0 % weight [*Test Method: Calculated*]

**Volatile Organic Compounds**

*No Data Available*

**Percent volatile**

*No Data Available*

**VOC Less H2O & Exempt Solvents**

732 g/l

**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**

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| Carbon monoxide  | Not Specified    |
| Carbon dioxide   | Not Specified    |

## SECTION 11: Toxicological information

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

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

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

**Inhalation:**

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

May cause additional health effects (see below).

**Skin Contact:**

Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

**Eye Contact:**

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

**Ingestion:**

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

May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination,

nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

### Toxicological Data

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

#### Acute Toxicity

| Name                                     | Route                          | Species | Value  |
|--|--------------------------------|---------|--|
| Overall product                          | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Isopropyl Alcohol                        | Dermal                         | Rabbit  | LD50 12,870 mg/kg                              |
| Isopropyl Alcohol                        | Inhalation-Vapor (4 hours)     | Rat     | LC50 72.6 mg/l                                 |
| Isopropyl Alcohol                        | Ingestion                      | Rat     | LD50 4,710 mg/kg                               |
| 3-(trimethoxysilyl)propyl glycidyl ether | Dermal                         | Rabbit  | LD50 4,000 mg/kg                               |
| 3-(trimethoxysilyl)propyl glycidyl ether | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5.3 mg/l                                |
| 3-(trimethoxysilyl)propyl glycidyl ether | Ingestion                      | Rat     | LD50 7,010 mg/kg                               |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                     | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Isopropyl Alcohol                        | Multiple animal species | No significant irritation |
| 3-(trimethoxysilyl)propyl glycidyl ether | Rabbit                  | Mild irritant             |

#### Serious Eye Damage/Irritation

| Name                                     | Species | Value           |
|--|---------|-----------------|
| Isopropyl Alcohol                        | Rabbit  | Severe irritant |
| 3-(trimethoxysilyl)propyl glycidyl ether | Rabbit  | Corrosive       |

#### Skin Sensitization

| Name                                     | Species    | Value          |
|--|------------|----------------|
| Isopropyl Alcohol                        | Guinea pig | Not classified |
| 3-(trimethoxysilyl)propyl glycidyl ether | 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  |
|--|----------|--|
| Isopropyl Alcohol                        | In Vitro | Not mutagenic  |
| Isopropyl Alcohol                        | In vivo  | Not mutagenic  |
| 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 |

#### Carcinogenicity

| Name                                     | Route      | Species | Value  |
|--|------------|---------|--|
| Isopropyl Alcohol                        | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| 3-(trimethoxysilyl)propyl glycidyl ether | Dermal     | Mouse   | Not carcinogenic   |

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

| Name                                     | Route      | Value                                  | Species | Test Result           | Exposure Duration    |
|--|------------|--|---------|-----------------------|----------------------|
| Isopropyl Alcohol                        | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | 2 generation         |
| Isopropyl Alcohol                        | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 500 mg/kg/day   | 2 generation         |
| Isopropyl Alcohol                        | Ingestion  | Not classified for development         | Rat     | NOAEL 400 mg/kg/day   | during organogenesis |
| Isopropyl Alcohol                        | Inhalation | Not classified for development         | Rat     | LOAEL 9 mg/l          | during gestation     |
| 3-(trimethoxysilyl)propyl glycidyl ether | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | 1 generation         |
| 3-(trimethoxysilyl)propyl glycidyl ether | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 1 generation         |
| 3-(trimethoxysilyl)propyl glycidyl ether | Ingestion  | Not classified for development         | Rat     | NOAEL 3,000 mg/kg/day | during organogenesis |

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

| Name              | Route      | Target Organ(s)                   | Value  | Species    | Test Result         | Exposure Duration      |
|-------------------|------------|-----------------------------------|--|------------|---------------------|------------------------|
| Isopropyl Alcohol | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human      | NOAEL Not available |                        |
| Isopropyl Alcohol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL Not available |                        |
| Isopropyl Alcohol | Inhalation | auditory system                   | Not classified   | Guinea pig | NOAEL 13.4 mg/l     | 24 hours               |
| Isopropyl Alcohol | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human      | NOAEL Not available | poisoning and/or abuse |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                     | Route      | Target Organ(s)   | Value          | Species | Test Result           | Exposure Duration |
|--|------------|---|----------------|---------|-----------------------|-------------------|
| Isopropyl Alcohol                        | Inhalation | kidney and/or bladder   | Not classified | Rat     | NOAEL 12.3 mg/l       | 24 months         |
| Isopropyl Alcohol                        | Inhalation | nervous system  | Not classified | Rat     | NOAEL 12 mg/l         | 13 weeks          |
| Isopropyl Alcohol                        | Ingestion  | kidney and/or bladder   | Not classified | Rat     | NOAEL 400 mg/kg/day   | 12 weeks          |
| 3-(trimethoxysilyl)propyl glycidyl ether | Ingestion  | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory system | Not classified | Rat     | NOAEL 1,000 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.

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.

**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**

Hazard Not Otherwise Classified (HNOC)

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this 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.

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