



Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 24-9265-0 | Version Number: | 2.00 |
| Issue Date: | 03/20/15 | Supersedes Date: | 07/20/09 |

Product identifier

3M™ PLATINUM GLAZE 12011

ID Number(s):

70-0080-0351-2

Recommended use

Automotive

Supplier's details

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

Emergency telephone number

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

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

24-8858-3, 24-7411-2

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 24-8858-3 | Version Number: | 4.03 |
| Issue Date: | 03/05/15 | Supersedes Date: | 01/15/14 |

SECTION 1: Identification

1.1. Product identifier

3M™ PLATINUM GLAZE 12011

Product Identification Numbers

LB-K100-0549-1, 70-0080-0352-0

1.2. Recommended use and restrictions on use

Recommended use

Automotive

1.3. Supplier's details

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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 2A.
Skin Sensitizer: Category 1B.
Carcinogenicity: Category 1A.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (central nervous system): Category 3.
Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Flammable liquid and vapor.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

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:

immune system |

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.

Use only outdoors or in a well-ventilated area.

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: 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 eye irritation persists: Get medical advice/attention.

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

IF ON SKIN: Wash with plenty of soap and water.

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

Wash contaminated clothing before reuse.

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

None.

31% of the mixture consists of ingredients of unknown acute oral toxicity.

39% of the mixture consists of ingredients of unknown acute dermal toxicity.

31% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---------------------------------------|---------------|--------------------------|
| Polyester Resin (Proprietary) | Trade Secret* | 10 - 30 Trade Secret * |
| Styrene Monomer | 100-42-5 | 10 - 30 Trade Secret * |
| Limestone | 1317-65-3 | 10 - 30 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | 5 - 10 Trade Secret * |
| Talc | 14807-96-6 | 5 - 10 Trade Secret * |
| Polyester Polymer | Trade Secret* | 5 - 10 Trade Secret * |
| Inert Filler | Trade Secret* | 5 - 10 Trade Secret * |
| Proprietary Polymer | Trade Secret* | 3 - 7 Trade Secret * |
| Synthetic Crystalline-Free Silica Gel | 112926-00-8 | 1 - 5 Trade Secret * |
| Trimethylolpropane Triacrylate | 15625-89-5 | 1 - 5 Trade Secret * |
| Wetting Agent | Trade Secret* | < 3 Trade Secret * |
| Thickening Agent | Trade Secret* | < 3 Trade Secret * |
| Zinc Phosphate | 7779-90-0 | 0.5 - 1.5 Trade Secret * |
| Quartz Silica | 14808-60-7 | 0.1 - 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 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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for 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.

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. 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. An appropriate aqueous film forming foam (AFFF) is recommended. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. 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 to prevent loss of stabilizing materials. 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:20 ppm;STEL:40 ppm | A4: Not class. as human carcin |
| Styrene Monomer | 100-42-5 | OSHA | TWA:100 ppm;CEIL:200 ppm | |
| SILICA, AMORPHOUS | 112926-00-8 | OSHA | TWA concentration:0.8 mg/m ³ ;TWA:20 millions of particles/cu. ft. | |
| Limestone | 1317-65-3 | OSHA | TWA(as total dust):15 mg/m ³ ;TWA(respirable fraction):5 mg/m ³ | |
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA:10 mg/m ³ | A4: Not class. as human carcin |
| Titanium Dioxide | 13463-67-7 | CMRG | TWA(as respirable dust):5 mg/m ³ | |
| Titanium Dioxide | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m ³ | |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m ³ | A4: Not class. as human carcin |
| Talc | 14807-96-6 | CMRG | TWA(as respirable dust):0.5 mg/m ³ | |
| Talc | 14807-96-6 | OSHA | TWA concentration(as total dust):0.3 mg/m ³ ;TWA concentration(respirable):0.1 mg/m ³ (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/m ³ | A2: Suspected human carcin. |
| Quartz Silica | 14808-60-7 | OSHA | TWA concentration(as total dust):0.3 mg/m ³ ;TWA concentration(respirable):0.1 mg/m ³ (2.4 millions of particles/cu. ft.) | |
| Trimethylolpropane Triacrylate | 15625-89-5 | AIHA | TWA:1 mg/m ³ | Skin Notation |
| Inert Filler | Trade Secret | Manufacturer determined | TWA(as dust):10 mg/m ³ | |
| Inert Filler | Trade Secret | ACGIH | TWA(as fiber):0.2 fiber/cc | A2: Suspected human carcin. |

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: Nitrile Rubber

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 – Nitrile

Respiratory protection

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

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------------------|---|
| General Physical Form: | Liquid |
| Odor, Color, Grade: | Pungent Styrene odor Off White Paste |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>No Data Available</i> |
| Melting point | <i>No Data Available</i> |
| Boiling Point | 293 °F |
| Flash Point | 88 °F [<i>Test Method: Pensky-Martens Closed Cup</i>] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | 0.9 % [<i>Details: based on styrene</i>] |
| Flammable Limits(UEL) | 6.8 % [<i>Details: based on styrene</i>] |

| | |
|---|--|
| Vapor Pressure | 4.5 mmHg |
| Vapor Density | No Data Available |
| Density | 1.02 g/ml |
| Specific Gravity | 1.02 [Ref Std: WATER=1] |
| Solubility in Water | Nil |
| Solubility- non-water | No Data Available |
| Partition coefficient: n-octanol/ water | No Data Available |
| Autoignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Hazardous Air Pollutants | 0.363 lb HAPS/lb solids [Test Method: Calculated] |
| Volatile Organic Compounds | 20.1 % weight [Test Method: calculated per CARB title 2] |
| Volatile Organic Compounds | 241 g/l [Test Method: calculated SCAQMD rule 443.1] |
| Percent volatile | 20.5 % weight |
| VOC Less H2O & Exempt Solvents | 242 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. Stable under normal conditions. May become unstable at elevated temperatures and/or pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames
Heat

10.5. Incompatible materials

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

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:

May be harmful if inhaled.

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

May cause additional health effects (see below).

Skin Contact:

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

May cause additional health effects (see below).

Eye Contact:

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

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

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.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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.

Immunological Effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and /or respiratory reaction, and changes in immune function.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient | CAS No. | Class Description | Regulation |
|-----------------------|--------------|-------------------------------|---|
| SILICA, CRYST AIRRESP | 14808-60-7 | Known human carcinogen | National Toxicology Program Carcinogens |
| Inert Filler | Trade Secret | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Inert Filler | Trade Secret | Anticipated human carcinogen | National Toxicology Program Carcinogens |

| | | | |
|------------------|--------------|--------------------------------|---|
| Inert Filler | Trade Secret | Anticipated human carcinogen | National Toxicology Program Carcinogens |
| Quartz Silica | 14808-60-7 | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Styrene Monomer | 100-42-5 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Styrene Monomer | 100-42-5 | Anticipated human carcinogen | National Toxicology Program Carcinogens |
| Titanium Dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---------------------------------------|--------------------------------|---------|---|
| Overall product | 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 > 5,000 mg/kg |
| Styrene Monomer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Styrene Monomer | Inhalation-Vapor (4 hours) | Rat | LC50 8.3 mg/l |
| Styrene Monomer | Ingestion | Rat | LD50 5,000 mg/kg |
| Limestone | Dermal | Rat | LD50 > 2,000 mg/kg |
| Limestone | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3.0 mg/l |
| Limestone | Ingestion | Rat | LD50 6,450 mg/kg |
| Talc | Dermal | | LD50 Not available |
| Talc | Ingestion | | LD50 Not available |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Inert Filler | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Inert Filler | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Polyester Polymer | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Synthetic Crystalline-Free Silica Gel | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Synthetic Crystalline-Free Silica Gel | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Synthetic Crystalline-Free Silica Gel | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Wetting Agent | Ingestion | Rat | LD50 40,600 mg/kg |
| Thickening Agent | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Thickening Agent | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 12.6 mg/l |
| Thickening Agent | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Trimethylolpropane Triacrylate | Dermal | Rabbit | LD50 5,170 mg/kg |
| Trimethylolpropane Triacrylate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Zinc Phosphate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Quartz Silica | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Quartz Silica | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|------------------|-------------------------|---------------------------|
| Styrene Monomer | official classification | Mild irritant |
| Limestone | Rabbit | No significant irritation |
| Talc | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| Inert Filler | Professional | No significant irritation |

| | | |
|---------------------------------------|------------------------|---------------------------|
| | judgement | |
| Synthetic Crystalline-Free Silica Gel | Rabbit | No significant irritation |
| Thickening Agent | Rat | No significant irritation |
| Trimethylolpropane Triacrylate | Rabbit | Mild irritant |
| Quartz Silica | Professional judgement | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---------------------------------------|-------------------------|---------------------------|
| Styrene Monomer | official classification | Moderate irritant |
| Limestone | Rabbit | No significant irritation |
| Talc | Rabbit | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| Inert Filler | Professional judgement | No significant irritation |
| Synthetic Crystalline-Free Silica Gel | Rabbit | No significant irritation |
| Thickening Agent | Rabbit | No significant irritation |
| Trimethylolpropane Triacrylate | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|---------------------------------------|------------------|-----------------|
| Styrene Monomer | Guinea pig | Not sensitizing |
| Titanium Dioxide | Human and animal | Not sensitizing |
| Synthetic Crystalline-Free Silica Gel | Human and animal | Not sensitizing |
| Trimethylolpropane Triacrylate | Guinea pig | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|------|---------|-----------------|
| Talc | Human | Not sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|---------------------------------------|----------|--|
| 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 |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| Inert Filler | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Synthetic Crystalline-Free Silica Gel | In Vitro | Not mutagenic |
| Trimethylolpropane Triacrylate | In vivo | Not mutagenic |
| Trimethylolpropane Triacrylate | 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

Carcinogenicity

| Name | Route | Species | Value |
|---------------------------------------|---------------|-------------------------|--|
| Styrene Monomer | Ingestion | Mouse | Carcinogenic |
| Styrene Monomer | Inhalation | Human and animal | Carcinogenic |
| Talc | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| Inert Filler | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Synthetic Crystalline-Free Silica Gel | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Trimethylolpropane Triacrylate | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica | Inhalation | Human and animal | Carcinogenic |

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

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---------------------------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| Styrene Monomer | Ingestion | Not toxic to female reproduction | Rat | NOAEL 21 mg/kg/day | 3 generation |
| Styrene Monomer | Inhalation | Not toxic to female reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| Styrene Monomer | Inhalation | Not toxic to male reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| Styrene Monomer | Ingestion | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 400 mg/kg/day | 60 days |
| Styrene Monomer | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 400 mg/kg/day | during gestation |
| Styrene Monomer | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 2.1 mg/l | during gestation |
| Limestone | Ingestion | Not toxic to development | Rat | NOAEL 625 mg/kg/day | prematuring & during gestation |
| Talc | Ingestion | Not toxic to development | Rat | NOAEL 1,600 mg/kg | during organogenesis |
| Synthetic Crystalline-Free Silica Gel | Ingestion | Not toxic to female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Synthetic Crystalline-Free Silica Gel | Ingestion | Not toxic to male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Synthetic Crystalline-Free Silica Gel | Ingestion | Not toxic to development | Rat | NOAEL 1,350 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 | LOAEL 4.3 mg/l | not available |

| | | | | | | |
|-----------------|------------|-----------------------------------|--|-------------------------|---------------------|-----------------------|
| | | | | species | | |
| 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 | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| Styrene Monomer | Inhalation | endocrine system | All data are negative | Rat | NOAEL Not available | not available |
| Styrene Monomer | Inhalation | kidney and/or bladder | All data are negative | Multiple animal species | NOAEL 2.1 mg/l | not available |
| Limestone | Inhalation | respiratory system | All data are negative | Rat | NOAEL 0.812 mg/l | 90 minutes |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|------------------|------------|---|--|-------------------------|---------------------|-----------------------|
| Styrene Monomer | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | auditory system | May cause damage to organs though prolonged or repeated exposure | Multiple animal species | NOAEL 1.3 mg/l | not available |
| 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 | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.85 mg/l | 7 days |
| Styrene Monomer | Inhalation | endocrine system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 0.6 mg/l | 10 days |
| Styrene Monomer | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 0.09 mg/l | not available |
| Styrene Monomer | Inhalation | heart bone, teeth, nails, and/or hair muscles kidney and/or bladder | All data are negative | 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 | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 677 mg/kg/day | 6 months |
| Styrene Monomer | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Dog | NOAEL 600 mg/kg/day | 470 days |
| Styrene Monomer | Ingestion | heart respiratory system | All data are negative | Rat | NOAEL 35 mg/kg/day | 105 weeks |
| Limestone | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 18 mg/m3 | 113 weeks |
| Titanium Dioxide | Inhalation | respiratory system | Some positive data exist, but the | Rat | LOAEL | 2 years |

| | | | | | | |
|---------------------------------------|------------|---|--|-------|---------------------|-----------------------|
| | | | data are not sufficient for classification | | 0.010 mg/l | |
| Titanium Dioxide | Inhalation | pulmonary fibrosis | All data are negative | Human | NOAEL Not available | occupational exposure |
| Inert Filler | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL not available | occupational exposure |
| Synthetic Crystalline-Free Silica Gel | Inhalation | respiratory system silicosis | All data are negative | Human | NOAEL Not available | occupational exposure |
| Trimethylolpropane Triacrylate | Dermal | immune system | May cause damage to organs through prolonged or repeated exposure | Mouse | NOAEL 50 mg/kg/day | 16 days |
| Trimethylolpropane Triacrylate | Dermal | heart hematopoietic system kidney and/or bladder respiratory system | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 12 mg/kg/day | 28 weeks |
| Quartz Silica | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |

Aspiration Hazard

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

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

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.

311/312 Hazard Categories:

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

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 | 10 - 30 |
| Zinc Phosphate (ZINC COMPOUNDS) | 7779-90-0 | 0.5 - 1.5 |

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u> |
|---|-------------------|-----------------------|
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) | None | Carcinogen |
| Titanium Dioxide | 13463-67-7 | Carcinogen |

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories

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

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: 1 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.

| | | | |
|------------------------|-----------|-------------------------|----------|
| Document Group: | 24-8858-3 | Version Number: | 4.03 |
| Issue Date: | 03/05/15 | Supersedes Date: | 01/15/14 |

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Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
| Document Group: | 24-7411-2 | Version Number: | 9.00 |
| Issue Date: | 02/19/14 | Supersedes Date: | 10/01/12 |

SECTION 1: Identification

1.1. Product identifier

3M™ Marson® Red Cream Hardener

Product Identification Numbers

LB-K100-0513-5, LB-K100-0513-6, LB-K100-0513-7, LB-K100-0513-8, LB-K100-0530-6

1.2. Recommended use and restrictions on use

Recommended use

Automotive

1.3. Supplier's details

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

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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 E.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.

2.2. Label elements

Signal word

Warning

Symbols

Flame | Exclamation mark |

Pictograms

**Hazard Statements**

Heating may cause a fire.

Causes serious eye irritation.

May cause an allergic skin reaction.

Precautionary Statements**General:**

Keep out of reach of children.

Prevention:

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

Keep away from clothing and other combustible materials.

Keep only in original container.

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

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

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

Response:

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

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

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

Wash contaminated clothing before reuse.

Storage:

Protect from sunlight.

Store at temperatures not exceeding 32C/90F. Keep cool.

Store away from other materials.

Disposal:

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

Notes to Physician:

Not applicable

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|-------------|------------------------|
| Benzoyl Peroxide | 94-36-0 | 30 - 60 Trade Secret * |
| Benzoic Acid, C9-11-Branched Alkyl Esters | 131298-44-7 | 10 - 30 Trade Secret * |
| Water | 7732-18-5 | 10 - 30 Trade Secret * |
| Zinc Stearate | 557-05-1 | 3 - 7 Trade Secret * |
| Iron Oxide (FE2O3) | 1309-37-1 | 1 - 5 Trade Secret * |

| | | |
|--|-----------|----------------------|
| Calcium Sulfate | 7778-18-9 | 1 - 5 Trade Secret * |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | 9038-95-3 | 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 wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

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

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode. Part of the oxygen for combustion is supplied by the peroxide itself.

5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. 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.

6.3. Methods and material for containment and cleaning up

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. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing of dust created by cutting, sanding, grinding or machining. Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store at temperatures not exceeding 32C/90F. Keep cool. Keep only in original container. Store away from other materials. Keep/store away from clothing and other combustible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|--------------------|------------|--------------------------------|--|---------------------|
| Iron Oxide (FE2O3) | 1309-37-1 | Amer Conf of Gov. Indust. Hyg. | TWA(respirable fraction):5 mg/m3 | |
| Iron Oxide (FE2O3) | 1309-37-1 | US Dept of Labor - OSHA | TWA(as fume):10 mg/m3 | |
| ROUGE | 1309-37-1 | US Dept of Labor - OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| STEARATES | 557-05-1 | Amer Conf of Gov. Indust. Hyg. | TWA:10 mg/m3 | |
| Zinc Stearate | 557-05-1 | US Dept of Labor - OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| Calcium Sulfate | 7778-18-9 | Amer Conf of Gov. Indust. Hyg. | TWA(inhalable fraction):10 mg/m3 | |
| Calcium Sulfate | 7778-18-9 | US Dept of Labor - OSHA | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3 | |
| Benzoyl Peroxide | 94-36-0 | Amer Conf of Gov. Indust. Hyg. | TWA:5 mg/m3 | |
| Benzoyl Peroxide | 94-36-0 | US Dept of Labor - OSHA | TWA:5 mg/m3 | |

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists

American Indust. Hygiene Assoc : American Industrial Hygiene Association

Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines

US Dept of Labor - 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

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Indirect Vented Goggles

Skin/hand protection

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

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

Respiratory protection

Wear respiratory protection if ventilation is inadequate to prevent overexposure. 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 particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| General Physical Form: | Solid |
| Specific Physical Form: | Viscous |
| Odor, Color, Grade: | Red paste with slight ester odor |
| Odor threshold | <i>No Data Available</i> |
| pH | <i>No Data Available</i> |
| Melting point | <i>No Data Available</i> |
| Boiling Point | <i>No Data Available</i> |
| Flash Point | 111 °C [<i>Test Method: Estimated</i>] |
| Evaporation rate | <i>No Data Available</i> |
| Flammability (solid, gas) | Organic Peroxide: Type E. |
| Flammable Limits(LEL) | <i>Not Applicable</i> |
| Flammable Limits(UEL) | <i>Not Applicable</i> |
| Vapor Pressure | <i>Not Applicable</i> |
| Vapor Density | <i>Not Applicable</i> |
| Density | 1.2 g/cm ³ |
| Specific Gravity | 1.2 [<i>@ 25 °C</i>] [<i>Ref Std: WATER=1</i>] |
| Solubility in Water | Negligible |
| Solubility- non-water | <i>No Data Available</i> |
| Partition coefficient: n-octanol/ water | <i>No Data Available</i> |

| | |
|--------------------------------|---|
| Autoignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity | No Data Available |
| Hazardous Air Pollutants | 0 % weight [Test Method: Calculated] |
| Volatile Organic Compounds | 0 lb/gal [Test Method: calculated SCAQMD rule 443.1] |
| Volatile Organic Compounds | 0 g/l [Test Method: calculated SCAQMD rule 443.1] |
| Volatile Organic Compounds | 0 % weight [Test Method: calculated per CARB title 2] |
| Percent volatile | 20 % [Details: Water is the volatile component] |
| VOC Less H2O & Exempt Solvents | 0 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. Stable unless exposed to heat, flames and drying conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Accelerators

10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|-------------------------------|------------------|
| Carbon monoxide | Not Specified |
| Carbon dioxide | Not Specified |
| Toxic Vapor, Gas, Particulate | 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.

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

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.

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 |
| Benzoyl Peroxide | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Benzoyl Peroxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 24.3 mg/l |
| Benzoyl Peroxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Benzoic Acid, C9-11-Branched Alkyl Esters | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Benzoic Acid, C9-11-Branched Alkyl Esters | Inhalation-Dust/Mist (4 hours) | Rat | LC50 2 mg/l |
| Benzoic Acid, C9-11-Branched Alkyl Esters | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Zinc Stearate | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Zinc Stearate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Dermal | Rabbit | LD50 > 16,960 mg/kg |
| Calcium Sulfate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5 mg/l |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | Rat | LD50 4,240 mg/kg |
| Iron Oxide (FE2O3) | Dermal | Not available | LD50 3,100 mg/kg |
| Iron Oxide (FE2O3) | Ingestion | Not available | LD50 3,700 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|---------|---------------------------|
| Benzoyl Peroxide | Rabbit | Minimal irritation |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Rabbit | Minimal irritation |
| Iron Oxide (FE2O3) | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------|---------------------------|
| Benzoyl Peroxide | Rabbit | Severe irritant |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Rabbit | No significant irritation |
| Iron Oxide (FE2O3) | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|--------------------|------------------|--|
| Benzoyl Peroxide | Human and animal | Sensitizing |
| Iron Oxide (FE2O3) | Human | Some positive data exist, but the data are not sufficient for classification |

Respiratory Sensitization

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------|----------|---------------|
| Benzoyl Peroxide | In Vitro | Not mutagenic |
| Benzoyl Peroxide | In vivo | Not mutagenic |
| Iron Oxide (FE2O3) | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--|------------|-------------------------|--|
| Benzoyl Peroxide | Ingestion | Multiple animal species | Not carcinogenic |
| Benzoyl Peroxide | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | Rat | Not carcinogenic |
| Iron Oxide (FE2O3) | Inhalation | Human | 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 |
|--|------------|--|---------|-----------------------|-------------------------------|
| Benzoyl Peroxide | Ingestion | Not toxic to female reproduction | Rat | NOAEL 1,000 mg/kg/day | pre mating & during gestation |
| Benzoyl Peroxide | Ingestion | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 500 mg/kg/day | pre mating & during gestation |
| Benzoyl Peroxide | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 500 mg/kg/day | pre mating & during gestation |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | Not toxic to female reproduction | Rat | NOAEL 3,770 mg/kg/day | 90 days |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | Not toxic to male reproduction | Rat | NOAEL 3,770 mg/kg/day | 90 days |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | Some positive male reproductive data exist, but the data are not sufficient for classification | Rat | NOAEL 1 mg/l | 2 weeks |

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

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|-----------|-----------------|--|---------|---------------------|-------------------|
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|------------|--|--|---------|-----------------|-------------------|
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | endocrine system hematopoietic system liver nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1 mg/l | 2 weeks |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL .005 mg/l | 2 weeks |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for | Rat | LOAEL .001 mg/l | 2 weeks |

| Ether | | | classification | | | |
|--|------------|---|--|-------|-----------------------|-----------------------|
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | heart | All data are negative | Rat | NOAEL .5 mg/l | 2 weeks |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 145 mg/kg/day | 90 days |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | hematopoietic system | All data are negative | Rat | NOAEL 500 mg/kg/day | 2 years |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | heart endocrine system respiratory system | All data are negative | Rat | NOAEL 3,770 mg/kg/day | 90 days |
| Iron Oxide (FE2O3) | Inhalation | pulmonary fibrosis pneumoconiosis | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | occupational exposure |

Aspiration Hazard

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

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 uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities. This product has been classified on the basis that it is stable as sold. Material may become unstable if allowed to dry out. Classify appropriately before disposal.

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.

311/312 Hazard Categories:

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

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> |
|--------------------------------|------------------|----------------|
| Zinc Stearate (ZINC COMPOUNDS) | 557-05-1 | 3 - 7 |
| Benzoyl Peroxide | 94-36-0 | 30 - 60 |

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.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 1 **Instability:** 1 **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: 2 **Flammability:** 1 **Physical Hazard:** 1 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® III) 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® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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