



# SAFETY DATA SHEET

Revision Date 25-Feb-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** 21351 REAR WINDOW DEFOGGER TAB ADHESIVE .01FO PART 1

### Other means of identification

**Product Code** 190510H

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Adhesive

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

ITW Permatex  
10 Columbus Blvd.  
Hartford, CT 06106 USA

#### Distributor

ITW Permatex Canada  
35 Brownridge Road, Unit 1  
Halton Hills, ON Canada L7G 0C6  
Telephone: (800) 924-6994

**Company Phone Number** 1-87-Permatex  
(877) 376-2839

**24 Hour Emergency Phone Number** Chem-Tel: 800-255-3924  
International Emergency:  
00+1+ 813-248-0585  
Contract Number: MIS0003453

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |                           |
|--|---------------------------|
| Skin corrosion/irritation                          | Category 1 Sub-category B |
| Serious eye damage/eye irritation                  | Category 1                |
| Skin sensitization                                 | Category 1                |
| Specific target organ toxicity (repeated exposure) | Category 2                |

### Label elements

#### **Emergency Overview**

#### **Danger**

Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
May cause damage to organs through prolonged or repeated exposure



**Appearance** Yellow

**Physical state** Liquid

**Odor** Irritating

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting  
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.

Unknown acute toxicity 48.75241% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

| Chemical Name                   | CAS No     | Weight-% | Trade Secret |
|---------------------------------|------------|----------|--------------|
| HYDROXYALKYL METHACRYLATE       | 27813-02-1 | 15 - 40  | *            |
| ALIPHATIC URETHANE METHACRYLATE | 3290-92-4  | 5 - 10   | *            |
| ACRYLIC ACID                    | 79-10-7    | 1 - 5    | *            |
| ALUMINUM SILICATE               | 1302-93-8  | 1 - 5    | *            |
| DIMETHYLBENZYL HYDROPEROXIDE    | 80-15-9    | 1 - 5    | *            |
| GLASS                           | 65997-17-3 | 1 - 5    | *            |
| 2-HYDROXYETHYL METHACRYLATE     | 868-77-9   | 1 - 5    | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Get medical advice/attention if you feel unwell.  |
| <b>Eye contact</b>                        | IF IN EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| <b>Skin contact</b>                       | IF ON SKIN: Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention/advice. Wash contaminated clothing before reuse.     |
| <b>Inhalation</b>                         | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.   |
| <b>Ingestion</b>                          | IF SWALLOWED. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.  |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required.  |

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

**Symptoms** See section 2 for more information.

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

##### Unsuitable extinguishing media

None.

##### Specific hazards arising from the chemical

None in particular.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.

##### Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

- Methods for containment** Prevent further leakage or spillage if safe to do so.
- Methods for cleaning up** Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
- Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

- Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.
- Incompatible materials** Strong oxidizing agents, Strong bases

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name                  | ACGIH TLV   | OSHA PEL   | NIOSH IDLH                             |
|--------------------------------|---|--|--|
| ACRYLIC ACID<br>79-10-7        | TWA: 2 ppm<br>S*  | (vacated) TWA: 10 ppm<br>(vacated) TWA: 30 mg/m <sup>3</sup><br>(vacated) S* | TWA: 2 ppm<br>TWA: 6 mg/m <sup>3</sup> |
| ALUMINUM SILICATE<br>1302-93-8 | TWA: 1 mg/m <sup>3</sup> respirable fraction  | -  | -                                      |
| GLASS<br>65997-17-3            | TWA: 1 fiber/cm <sup>3</sup> respirable fibers:<br>length >5 µm, aspect ratio >=3:1, as<br>determined by the membrane filter<br>method at 400-450X magnification<br>[4-mm objective], using<br>phase-contrast illumination<br>TWA: 5 mg/m <sup>3</sup> inhalable fraction | -  | -                                      |

*NIOSH IDLH Immediately Dangerous to Life or Health*

- Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

- Engineering Controls** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

- Eye/face protection** Tight sealing safety goggles.
- Skin and body protection** Wear protective gloves and protective clothing.
- Respiratory protection** Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | Yellow                   |
| <b>Odor</b>           | Irritating               |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                       | <u>Values</u>            | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                             | Does not apply           |                         |
| <b>Melting point / freezing point</b> | No information available |                         |
| <b>Boiling point / boiling range</b>  | > 149 °C / 300 °F        |                         |
| <b>Flash point</b>                    | > 93 °C / > 199 °F       | Tag Closed Cup          |
| <b>Evaporation rate</b>               | < 1                      | Butyl acetate = 1       |
| <b>Flammability (solid, gas)</b>      | No information available |                         |
| <b>Flammability Limit in Air</b>      |                          |                         |
| <b>Upper flammability limit:</b>      | No information available |                         |
| <b>Lower flammability limit:</b>      | No information available |                         |
| <b>Vapor pressure</b>                 | Not determined           |                         |
| <b>Vapor density</b>                  | >1                       | Air = 1                 |
| <b>Relative density</b>               | 1.08 @ 80°F              |                         |
| <b>Water solubility</b>               | Insoluble                |                         |
| <b>Solubility in other solvents</b>   | No information available |                         |
| <b>Partition coefficient</b>          | No information available |                         |
| <b>Autoignition temperature</b>       | No information available |                         |
| <b>Decomposition temperature</b>      | No information available |                         |
| <b>Kinematic viscosity</b>            | No information available |                         |
| <b>Dynamic viscosity</b>              | No information available |                         |
| <b>Explosive properties</b>           | No information available |                         |
| <b>Oxidizing properties</b>           | No information available |                         |

### Other Information

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | 7%                       |
| <b>Density</b>          | No information available |
| <b>Bulk density</b>     | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity**  
No data available

**Chemical stability**  
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**  
None under normal processing.

**Conditions to avoid**  
Excessive heat.

**Incompatible materials**  
Strong oxidizing agents, Strong bases

**Hazardous Decomposition Products**

Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Inhalation** May be harmful if inhaled.

**Eye contact** Severely irritating to eyes. May cause burns.

**Skin contact** Contact causes severe skin irritation and possible burns.

**Ingestion** May be harmful if swallowed. Can burn mouth, throat, and stomach.

| Chemical Name                                   | Oral LD50                                    | Dermal LD50                                      | Inhalation LC50                                   |
|---|--|--|---|
| HYDROXYALKYL<br>METHACRYLATE<br>27813-02-1      | = 11200 mg/kg ( Rat )                        | > 3000 mg/kg ( Rabbit )                          | -   |
| ALIPHATIC URETHANE<br>METHACRYLATE<br>3290-92-4 | = 5660 µL/kg ( Rat )                         | = 16 mL/kg ( Rabbit )                            | -   |
| ACRYLIC ACID<br>79-10-7                         | = 193 mg/kg ( Rat ) = 33500 µg/kg<br>( Rat ) | = 280 µL/kg ( Rabbit ) = 295 mg/kg<br>( Rabbit ) | = 11.1 mg/L ( Rat ) 1 h = 3.6 mg/L<br>( Rat ) 4 h |
| DIMETHYLBENZYL<br>HYDROPEROXIDE<br>80-15-9      | = 382 mg/kg ( Rat )                          | = 0.126 mL/kg ( Rabbit )                         | = 220 ppm ( Rat ) 4 h                             |
| 2-HYDROXYETHYL<br>METHACRYLATE<br>868-77-9      | = 5050 mg/kg ( Rat )                         | > 3000 mg/kg ( Rabbit )                          | -   |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name           | ACGIH | IARC    | NTP | OSHA |
|-------------------------|-------|---------|-----|------|
| ACRYLIC ACID<br>79-10-7 | -     | Group 3 | -   | -    |
| GLASS<br>65997-17-3     | -     | Group 3 | -   | -    |

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Not classifiable as a human carcinogen

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Target Organ Effects** Eyes, Respiratory system, Skin.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2564 mg/kg

ATEmix (dermal) 2826 mg/kg

ATEmix (inhalation-dust/mist) 6.6 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

None known

81.14791% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name                                | Algae/aquatic plants  | Fish  | Crustacea   |
|--|---|---|---|
| HYDROXYALKYL METHACRYLATE<br>27813-02-1      | -   | 493: 48 h Leuciscus idus melanotus mg/L LC50 static   | -   |
| ALIPHATIC URETHANE METHACRYLATE<br>3290-92-4 | -   | 144: 96 h Oncorhynchus mykiss mg/L LC50 160: 96 h Pimephales promelas mg/L LC50 112: 96 h Lepomis macrochirus mg/L LC50 | -   |
| ACRYLIC ACID<br>79-10-7                      | 0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.04: 72 h Desmodesmus subspicatus mg/L EC50 | 222: 96 h Brachydanio rerio mg/L LC50 semi-static   | 95: 48 h Daphnia magna mg/L EC50 270: 24 h Daphnia magna mg/L LC50 Static |
| DIMETHYLBENZYL HYDROPEROXIDE<br>80-15-9      | -   | 3.9: 96 h Oncorhynchus mykiss mg/L LC50 static  | 7: 24 h Daphnia magna mg/L EC50   |
| 2-HYDROXYETHYL METHACRYLATE<br>868-77-9      | -   | 213 - 242: 96 h Pimephales promelas mg/L LC50 flow-through 227: 96 h Pimephales promelas mg/L LC50                      | -   |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

| Chemical Name                           | Partition coefficient |
|---|-----------------------|
| HYDROXYALKYL METHACRYLATE<br>27813-02-1 | 0.97                  |
| ACRYLIC ACID<br>79-10-7                 | 0.38 - 0.46           |
| 2-HYDROXYETHYL METHACRYLATE<br>868-77-9 | 0.47                  |

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

**US EPA Waste Number** Not applicable

| Chemical Name                           | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|------|--------------------------|------------------------|------------------------|
| ACRYLIC ACID<br>79-10-7                 | -    | -                        | -                      | U008                   |
| DIMETHYLBENZYL HYDROPEROXIDE<br>80-15-9 | -    | -                        | -                      | U096                   |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name                           | California Hazardous Waste Status |
|---|-----------------------------------|
| DIMETHYLBENZYL HYDROPEROXIDE<br>80-15-9 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION**

**DOT**  
Proper shipping name: Not regulated

**IATA**  
Proper shipping name: Not regulated

**IMDG**  
Proper shipping name: Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

|               |                 |
|---------------|-----------------|
| TSCA          | Complies        |
| DSL/NDSL      | Complies        |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Complies        |
| KECL          | Complies        |
| PICCS         | Does not comply |
| AICS          | Complies        |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                          | SARA 313 - Threshold Values % |
|--|-------------------------------|
| ACRYLIC ACID - 79-10-7                 | 1.0                           |
| DIMETHYLBENZYL HYDROPEROXIDE - 80-15-9 | 1.0                           |
| SACCHARIN - 81-07-2                    | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                              | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|--|--------------------------|----------------|--|
| ACRYLIC ACID<br>79-10-7                    | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| DIMETHYLBENZYL<br>HYDROPEROXIDE<br>80-15-9 | 10 lb                    | -              | RQ 10 lb final RQ<br>RQ 4.54 kg final RQ   |

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name                              | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| ACRYLIC ACID<br>79-10-7                    | X          | X             | X            |
| DIMETHYLBENZYL<br>HYDROPEROXIDE<br>80-15-9 | X          | X             | X            |
| SACCHARIN<br>81-07-2                       | X          | X             | X            |
| SILVER<br>7440-22-4                        | X          | X             | X            |
| WATER<br>7732-18-5                         | -          | -             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

|             |                  |                |                    |                       |
|-------------|------------------|----------------|--------------------|-----------------------|
| <b>NFPA</b> | Health hazards 2 | Flammability 1 | Instability 0      | -                     |
| <b>HMIS</b> | Health hazards 2 | Flammability 1 | Physical hazards 0 | Personal protection B |

NFPA (National Fire Protection Association)  
HMIS (Hazardous Material Information System)

Revision Date 25-Feb-2015

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Revision Date 03-Feb-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** 21351 REAR WINDOW DEFOGGER TAB ADHESIVE PART 2

### Other means of identification

**Product Code** PTX394319AA

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Activator

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

ITW Permatex  
10 Columbus Blvd.  
Hartford, CT 06106 USA

#### Distributor

ITW Permatex Canada  
35 Brownridge Road, Unit 1  
Halton Hills, ON Canada L7G 0C6  
Telephone: (800) 924-6994

**Company Phone Number** 1-87-Permatex  
(877) 376-2839

**24 Hour Emergency Phone Number** Chem-Tel: 800-255-3924  
International Emergency:  
00+1+ 813-248-0585  
Contract Number: MIS0003453

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Acute toxicity - Oral                              | Category 4 |
| Serious eye damage/eye irritation                  | Category 2 |
| Specific target organ toxicity (single exposure)   | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable liquids                                  | Category 2 |

### Label elements

#### **Emergency Overview**

#### **Danger**

Harmful if swallowed  
Causes serious eye irritation  
May cause drowsiness or dizziness  
May cause damage to organs through prolonged or repeated exposure  
Highly flammable liquid and vapor



**Appearance** Green

**Physical state** Liquid

**Odor** Alcoholic

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear eye/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth  
 In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). Copper compounds.

Unknown acute toxicity                      2.38% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

| Chemical Name | CAS No  | Weight-% | Trade Secret |
|---------------|---------|----------|--------------|
| 2-PROPANOL    | 67-63-0 | 60 - 100 | *            |

|                 |           |       |   |
|-----------------|-----------|-------|---|
| MINERAL SPIRITS | 8052-41-3 | 1 - 5 | * |
|-----------------|-----------|-------|---|

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Get medical advice/attention if you feel unwell.   |
| <b>Eye contact</b>                        | 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. |
| <b>Skin contact</b>                       | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician. Wash contaminated clothing before reuse. |
| <b>Inhalation</b>                         | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.  |
| <b>Ingestion</b>                          | IF SWALLOWED. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.   |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.  |

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

**Symptoms** See section 2 for more information.

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

##### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

##### Specific hazards arising from the chemical

Flammable. May be ignited by heat, sparks or flames.

##### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

##### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required.

##### Environmental precautions

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Incompatible materials** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name                | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH  |
|------------------------------|-------------------------------|---|---|
| 2-PROPANOL<br>67-63-0        | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |
| MINERAL SPIRITS<br>8052-41-3 | TWA: 100 ppm                  | TWA: 500 ppm<br>TWA: 2900 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 525 mg/m <sup>3</sup>   | IDLH: 20000 mg/m <sup>3</sup><br>Ceiling: 1800 mg/m <sup>3</sup> 15 min<br>TWA: 350 mg/m <sup>3</sup>         |

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Showers  
 Eyewash stations  
 Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Liquid  
**Appearance** Green  
**Odor** Alcoholic  
**Odor threshold** No information available

| <u>Property</u>                       | <u>Values</u>            | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                             | Does not apply           |                         |
| <b>Melting point / freezing point</b> | No information available |                         |
| <b>Boiling point / boiling range</b>  | 82 °C / 180 °F           |                         |
| <b>Flash point</b>                    | 12 °C / 53 °F            | Tag Closed Cup          |
| <b>Evaporation rate</b>               | 7.7                      | Butyl acetate = 1       |
| <b>Flammability (solid, gas)</b>      | No information available |                         |
| <b>Flammability Limit in Air</b>      |                          |                         |
| <b>Upper flammability limit:</b>      | 12.0%                    |                         |
| <b>Lower flammability limit:</b>      | 2.0%                     |                         |
| <b>Vapor pressure</b>                 | 32 mm Hg @ 68°F          |                         |
| <b>Vapor density</b>                  | 2.1                      | Air = 1                 |
| <b>Relative density</b>               | 0.79 @ 77°F              |                         |
| <b>Water solubility</b>               | Soluble in water         |                         |
| <b>Solubility in other solvents</b>   | No information available |                         |
| <b>Partition coefficient</b>          | No information available |                         |
| <b>Autoignition temperature</b>       | No information available |                         |
| <b>Decomposition temperature</b>      | No information available |                         |
| <b>Kinematic viscosity</b>            | No information available |                         |
| <b>Dynamic viscosity</b>              | No information available |                         |
| <b>Explosive properties</b>           | No information available |                         |
| <b>Oxidizing properties</b>           | No information available |                         |

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** 96.5  
**Density** No information available  
**Bulk density** No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**  
 No data available

**Chemical stability**  
 Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**  
 None under normal processing.

**Conditions to avoid**  
 Heat, flames and sparks. Take precautionary measures against static discharges.

**Incompatible materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May be harmful by inhalation.                |
| <b>Eye contact</b>  | May cause redness and tearing of the eyes.   |
| <b>Skin contact</b> | May cause skin irritation and/or dermatitis. |
| <b>Ingestion</b>    | May be harmful if swallowed.                 |

| Chemical Name         | Oral LD50            | Dermal LD50             | Inhalation LC50                       |
|-----------------------|----------------------|-------------------------|---------------------------------------|
| 2-PROPANOL<br>67-63-0 | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit ) | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name         | ACGIH | IARC    | NTP | OSHA |
|-----------------------|-------|---------|-----|------|
| 2-PROPANOL<br>67-63-0 | -     | Group 1 | -   | X    |

*IARC (International Agency for Research on Cancer)  
 Group 1 - Carcinogenic to Humans  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present*

**Target Organ Effects** Central nervous system, Eyes, kidney, Respiratory system, Skin.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

|                                      |            |
|--------------------------------------|------------|
| <b>ATEmix (oral)</b>                 | 1938 mg/kg |
| <b>ATEmix (dermal)</b>               | 4206 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 75.2 mg/l  |

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

None known  
 3.5% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name         | Algae/aquatic plants   | Fish  | Crustacea                                  |
|-----------------------|--|---|--|
| 2-PROPANOL<br>67-63-0 | 1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50<br>1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static<br>9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through<br>1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50 | 13299: 48 h <i>Daphnia magna</i> mg/L EC50 |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

| Chemical Name         | Partition coefficient |
|-----------------------|-----------------------|
| 2-PROPANOL<br>67-63-0 | 0.05                  |

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated packaging** Do not reuse container.

**US EPA Waste Number** D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name         | California Hazardous Waste Status |
|-----------------------|-----------------------------------|
| 2-PROPANOL<br>67-63-0 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION**

**DOT**

**Proper shipping name:** Isopropyl alcohol, Limited Quantity (LQ)  
**Hazard Class** 3  
**Packing Group** II

**IATA**

**UN/ID no** ID 8000  
**Proper shipping name:** Consumer commodity  
**Hazard Class** 9

**IMDG**

**UN/ID no** UN 1219  
**Proper shipping name:** Isopropyl alcohol, Limited Quantity (LQ)  
**Hazard Class** 3  
**Packing Group** II  
**EmS-No** F-E, S-D

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies



IECSC Complies  
 KECL Complies  
 PICCS Complies  
 AICS Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name        | SARA 313 - Threshold Values % |
|----------------------|-------------------------------|
| 2-PROPANOL - 67-63-0 | 1.0                           |

**SARA 311/312 Hazard Categories**

Acute health hazard Yes  
 Chronic Health Hazard Yes  
 Fire hazard Yes  
 Sudden release of pressure hazard No  
 Reactive Hazard No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name                        | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------|------------|---------------|--------------|
| 2-PROPANOL<br>67-63-0                | X          | X             | X            |
| MINERAL SPIRITS<br>8052-41-3         | X          | X             | X            |
| ORGANO-COPPER COMPOUND<br>85737-14-0 | X          | -             | X            |
| ORGANO-COPPER COMPOUND<br>68084-48-0 | X          | -             | X            |
| ORGANO-COPPER COMPOUND<br>22221-10-9 | X          | -             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

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|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 3 | <b>Instability</b> 0      | -                            |
| <b>HMIS</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 3 | <b>Physical hazards</b> 0 | <b>Personal protection</b> B |

NFPA (National Fire Protection Association)  
HMIS (Hazardous Material Information System)

**Revision Date** 03-Feb-2015

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**