



# SAFETY DATA SHEET

Revision Date 03-Feb-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** HIGH TEMPERATURE THREAD SEALANT 6ML

### Other means of identification

**Product Code** 59214

**Synonyms** None

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

**Recommended Use** Sealant

**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

## 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 2  |
| Serious eye damage/eye irritation                  | Category 2A |
| Carcinogenicity                                    | Category 2  |
| Specific target organ toxicity (repeated exposure) | Category 2  |

### Label elements

#### **Emergency Overview**

#### **Warning**

Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
May cause damage to organs through prolonged or repeated exposure



**Appearance** White

**Physical state** Paste

**Odor** Mild

**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  
Wear eye/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray

**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: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Not applicable.

Unknown acute toxicity

73.871% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

| Chemical Name                | CAS No     | Weight-% | Trade Secret |
|------------------------------|------------|----------|--------------|
| POLYGLYCOL DIMETHACRYLATE    | 25852-47-5 | 10 - 30  | *            |
| SILICA, MICA                 | 12001-26-2 | 10 - 30  | *            |
| POLYETHYLENE GLYCOL ESTER    | 18268-70-7 | 5 - 10   | *            |
| OCTANOL                      | 111-87-5   | 5 - 10   | *            |
| POLYTETRAFLUOROETHYLENE      | 9002-84-0  | 3 - 7    | *            |
| TITANIUM DIOXIDE             | 13463-67-7 | 1 - 5    | *            |
| PROPYLENE GLYCOL             | 57-55-6    | 1 - 5    | *            |
| SACCHARIN                    | 81-07-2    | 1 - 5    | *            |
| DIMETHYLBENZYL HYDROPEROXIDE | 80-15-9    | 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: 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: Wash skin with soap and water. If skin irritation persists, 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 (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**

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.  |
| <b>Methods for cleaning up</b>         | Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. |
| <b>Prevention of secondary hazards</b> | 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. Amines.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical Name                  | ACGIH TLV                                    | OSHA PEL  | NIOSH IDLH   |
|--------------------------------|--|---|--|
| SILICA, MICA<br>12001-26-2     | TWA: 3 mg/m <sup>3</sup> respirable fraction | (vacated) TWA: 3 mg/m <sup>3</sup> respirable dust <1% Crystalline silica<br>TWA: 20 mppcf <1% Crystalline silica | IDLH: 1500 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup> containing <1% Quartz respirable dust |
| TITANIUM DIOXIDE<br>13463-67-7 | TWA: 10 mg/m <sup>3</sup>                    | TWA: 15 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 10 mg/m <sup>3</sup> total dust                            | IDLH: 5000 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** Paste  
**Appearance** White

**Odor** Mild  
**Odor threshold** No information available

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | Does not apply           |                         |
| Melting point / freezing point | No information available |                         |
| Boiling point / boiling range  | > 149 °C / 300 °F        |                         |
| Flash point                    | > 93 °C / > 199 °F       |                         |
| Evaporation rate               | No information available |                         |
| Flammability (solid, gas)      | No information available |                         |
| Flammability Limit in Air      |                          |                         |
| Upper flammability limit:      | No information available |                         |
| Lower flammability limit:      | No information available |                         |
| Vapor pressure                 | n/d                      |                         |
| Vapor density                  | >1                       | Air = 1                 |
| Relative density               | 1.16-1.26                |                         |
| Water solubility               | Insoluble                |                         |
| Solubility in other solvents   | No information available |                         |
| Partition coefficient          | No information available |                         |
| Autoignition temperature       | No information available |                         |
| Decomposition temperature      | No information available |                         |
| Kinematic viscosity            | No information available |                         |
| Dynamic viscosity              | No information available |                         |
| Explosive properties           | No information available |                         |
| Oxidizing properties           | No information available |                         |

**Other Information**

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** 2.8%; 33.9 g/L  
**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**  
Excessive heat.

**Incompatible materials**  
Strong oxidizing agents, Amines

**Hazardous Decomposition Products**  
Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Inhalation** May be harmful if inhaled.

**Eye contact** May cause redness and tearing of the eyes.  
**Skin contact** May cause skin irritation and/or dermatitis.  
**Ingestion** Ingestion may cause irritation to mucous membranes.

| Chemical Name                              | Oral LD50             | Dermal LD50              | Inhalation LC50       |
|--|-----------------------|--------------------------|-----------------------|
| POLYETHYLENE GLYCOL ESTER<br>18268-70-7    | = 18 g/kg ( Rat )     | > 20 mL/kg ( Rabbit )    | -                     |
| OCTANOL<br>111-87-5                        | > 3200 mg/kg ( Rat )  | > 5000 mg/kg ( Rabbit )  | -                     |
| TITANIUM DIOXIDE<br>13463-67-7             | > 10000 mg/kg ( Rat ) | -                        | -                     |
| PROPYLENE GLYCOL<br>57-55-6                | = 20000 mg/kg ( Rat ) | = 20800 mg/kg ( Rabbit ) | -                     |
| DIMETHYLBENZYL<br>HYDROPEROXIDE<br>80-15-9 | = 382 mg/kg ( Rat )   | = 0.126 mL/kg ( Rabbit ) | = 220 ppm ( 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**

**Serious eye damage/eye irritation** Risk of serious damage to eyes.  
**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 |
|--------------------------------------|-------|----------|-----|------|
| POLYTETRAFLUOROETHYLENE<br>9002-84-0 | -     | Group 3  | -   | -    |
| TITANIUM DIOXIDE<br>13463-67-7       | -     | Group 2B | -   | X    |
| SACCHARIN<br>81-07-2                 | -     | Group 3  | -   | -    |

*IARC (International Agency for Research on Cancer)*  
*Group 2B - Possibly Carcinogenic to Humans*  
*Not classifiable as a human carcinogen*  
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*  
*X - Present*

**Target Organ Effects** Lungs, Respiratory system.

**Numerical measures of toxicity - Product Information**

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

**ATEmix (oral)** 3936 mg/kg  
**ATEmix (dermal)** 7529 mg/kg  
**ATEmix (inhalation-dust/mist)** 13.1 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

None known  
 85.671% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name       | Algae/aquatic plants                                 | Fish   | Crustacea                                |
|---------------------|--|--|--|
| OCTANOL<br>111-87-5 | 14: 48 h Desmodesmus subspicatus<br>mg/L EC50 static | 11.4 - 12.9: 96 h Pimephales<br>promelas mg/L LC50 flow-through<br>17.68: 96 h Oncorhynchus mykiss<br>mg/L LC50 static | 15 - 26: 24 h Daphnia magna mg/L<br>EC50 |

|   |   |  |   |
|---|---|--|---|
| PROPYLENE GLYCOL<br>57-55-6             | 19000: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 | 1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50 |
| SACCHARIN<br>81-07-2                    | -   | 18300: 96 h Pimephales promelas mg/L LC50  | -   |
| DIMETHYLBENZYL HYDROPEROXIDE<br>80-15-9 | -   | 3.9: 96 h Oncorhynchus mykiss mg/L LC50 static   | 7: 24 h Daphnia magna mg/L EC50   |

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

| Chemical Name       | Partition coefficient |
|---------------------|-----------------------|
| OCTANOL<br>111-87-5 | 3.15                  |

**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 |
|---|------|--------------------------|------------------------|------------------------|
| 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

**TDG**

Proper shipping name Not regulated

**ICAO (air)**

Proper shipping name Not regulated

**IATA**

Proper shipping name Not regulated

**IMDG**

Proper shipping name Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Does not comply  
 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 % |
|--|-------------------------------|
| 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 does not contain any substances regulated as 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)                 |
|--|--------------------------|----------------|--|
| 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 contains the following Proposition 65 chemicals

| Chemical Name                 | California Proposition 65 |
|-------------------------------|---------------------------|
| TITANIUM DIOXIDE - 13463-67-7 | Carcinogen                |

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

| Chemical Name                              | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| SILICA, MICA<br>12001-26-2                 | X          | X             | X            |
| TITANIUM DIOXIDE<br>13463-67-7             | X          | X             | X            |
| PROPYLENE GLYCOL<br>57-55-6                | X          | -             | X            |
| DIMETHYLBENZYL<br>HYDROPEROXIDE<br>80-15-9 | X          | X             | X            |
| SACCHARIN<br>81-07-2                       | X          | X             | X            |
| WATER<br>7732-18-5                         | -          | -             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**NFPA**                      Health hazards 2              Flammability 1              Instability 0              -  
**HMIS**                      Health hazards 2              Flammability 1              Physical hazards 0              Personal protection 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**