



# SAFETY DATA SHEET

Revision Date 02-Apr-2019

Version 8

## 1. IDENTIFICATION

### Product identifier

**Product Name** THREAD SEALANT W/PTFE 4 FL.OZ.

### Other means of identification

**Product Code** 80632

### 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  
6875 Parkland Blvd.  
Solon, Ohio 44139 USA  
Telephone: 1-87-Permatex  
(866) 732-9502

#### 24-hour emergency phone number

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

#### May Also Be Distributed by:

ITW Permatex Canada  
101-2360 Bristol Circle  
Oakville, ON Canada L6H 6M5  
Telephone: (800) 924-6994

**E-mail address:** mail@permatex.com

## 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 |
| Flammable liquids     | Category 3 |

### Label elements

#### **Emergency Overview**

#### Signal word

**Warning**

Harmful if swallowed  
Flammable liquid and vapor

**Appearance** White**Physical state** Paste**Odor** Alcoholic**Precautionary Statements - Prevention**

Do not eat, drink or smoke when using this product  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Use non-sparking tools  
 Take precautionary measures against static discharge

**Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor/physician

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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

**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**

Not applicable

Unknown acute toxicity

31.47105 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name          | CAS No     | Weight-% |
|------------------------|------------|----------|
| TALC                   | 14807-96-6 | 15 - 40  |
| ETHANOL                | 64-17-5    | 10 - 30  |
| 2-PROPANOL             | 67-63-0    | 1 - 5    |
| TITANIUM DIOXIDE       | 13463-67-7 | 1 - 5    |
| METHANOL               | 67-56-1    | 1 - 5    |
| METHYL ISOBUTYL KETONE | 108-10-1   | 0.1 - 1  |

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

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.   |
| <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: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.  |

**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**

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

**Specific hazards arising from the chemical**

Highly flammable. Risk of ignition.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

**Other Information** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

**Environmental precautions**

**Environmental precautions** 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. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards** Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in a well-ventilated place. Keep cool.

**Incompatible materials** Strong oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                      | ACGIH TLV  | OSHA PEL   | NIOSH IDLH  |
|------------------------------------|--|--|---|
| TALC<br>14807-96-6                 | TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter | (vacated) TWA: 2 mg/m <sup>3</sup> respirable dust <1% Crystalline silica, containing no Asbestos<br>TWA: 20 mppcf if 1% Quartz or more; use Quartz limit  | IDLH: 1000 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup> containing no Asbestos and <1% Quartz respirable dust  |
| ETHANOL<br>64-17-5                 | STEL: 1000 ppm   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup>   | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>  |
| 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>   |
| 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><br>TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine<br>TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale |
| METHANOL<br>67-56-1                | STEL: 250 ppm<br>TWA: 200 ppm<br>S*  | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m <sup>3</sup><br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m <sup>3</sup><br>(vacated) S* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 325 mg/m <sup>3</sup>  |
| METHYL ISOBUTYL KETONE<br>108-10-1 | STEL: 75 ppm<br>TWA: 20 ppm  | TWA: 100 ppm<br>TWA: 410 mg/m <sup>3</sup><br>(vacated) TWA: 50 ppm<br>(vacated) TWA: 205 mg/m <sup>3</sup><br>(vacated) STEL: 75 ppm<br>(vacated) STEL: 300 mg/m <sup>3</sup>                   | IDLH: 500 ppm<br>TWA: 50 ppm<br>TWA: 205 mg/m <sup>3</sup><br>STEL: 75 ppm<br>STEL: 300 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

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin and body protection</b>       | Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.   |
| <b>Respiratory protection</b>         | Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.  |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Paste                    |
| <b>Appearance</b>     | White                    |
| <b>Odor</b>           | Alcoholic                |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No information available |                         |
| Melting point / freezing point | No information available |                         |
| Boiling point / boiling range  | 82 °C / 180 °F           |                         |
| Flash point                    | 25 °C / 77 °F            | Tag Closed Cup          |
| Evaporation rate               | < 1                      | Butyl acetate = 1       |
| Flammability (solid, gas)      | No information available |                         |
| Flammability Limit in Air      |                          |                         |
| Upper flammability limit:      | 12.7%                    |                         |
| Lower flammability limit:      | 2.3%                     |                         |
| Vapor pressure                 | 33 mm Hg @ 68°F          |                         |
| Vapor density                  | >1                       | Air = 1                 |
| Relative density               | 1.06-1.10                |                         |
| Water solubility               | Partially soluble        |                         |
| Solubility(ies)                | 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

|   |                          |
|---|--------------------------|
| <b>Softening point</b>                                    | No information available |
| <b>Molecular weight</b>                                   | No information available |
| <b>VOC Content (%)</b>                                    | 29.5%                    |
| <b>Density</b>  | No information available |
| <b>Bulk density</b>                                       | No information available |
| <b>SADT (self-accelerating decomposition temperature)</b> | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

Stable under normal conditions

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Carbon oxides

Fluorides

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.   |
| <b>Eye contact</b>  | Contact with eyes may cause irritation. 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                                 |
|------------------------------------|-----------------------|---|---|
| ETHANOL<br>64-17-5                 | = 7060 mg/kg ( Rat )  | -   | = 124.7 mg/L ( Rat ) 4 h                        |
| 2-PROPANOL<br>67-63-0              | 5050 mg/kg            | 12800 mg/kg                                       | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h           |
| TITANIUM DIOXIDE<br>13463-67-7     | > 10000 mg/kg ( Rat ) | -   | -   |
| METHANOL<br>67-56-1                | = 6200 mg/kg ( Rat )  | = 15800 mg/kg ( Rabbit ) = 15840 mg/kg ( Rabbit ) | = 64000 ppm ( Rat ) 4 h = 22500 ppm ( Rat ) 8 h |
| METHYL ISOBUTYL KETONE<br>108-10-1 | = 2080 mg/kg ( Rat )  | = 3000 mg/kg ( Rabbit )                           | = 8.2 mg/L ( 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 |
|---------------------------------------|-------|----------|-------|------|
| TALC<br>14807-96-6                    | -     | Group 3  | -     | X    |
| ETHANOL<br>64-17-5                    | A3    | Group 1  | Known | X    |
| TITANIUM DIOXIDE<br>13463-67-7        | -     | Group 2B | -     | X    |
| METHYL ISOBUTYL<br>KETONE<br>108-10-1 | A3    | Group 2B | -     | X    |

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - *Animal Carcinogen*

IARC (International Agency for Research on Cancer)

Group 1 - *Carcinogenic to Humans*

Group 2B - *Possibly 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

**Chronic toxicity** May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Contains a known or suspected reproductive toxin.

**Target Organ Effects** Central nervous system, Blood, Central Vascular System (CVS), Eyes, Gastrointestinal tract (GI), Liver, Reproductive System, Respiratory system, Skin.

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

**ATEmix (oral)** 3922 mg/kg  
**ATEmix (dermal)** 14604 mg/kg  
**ATEmix (inhalation-dust/mist)** 25.7 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

0.01105 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

### Mobility

No information available.

| Chemical Name                      | Partition coefficient |
|------------------------------------|-----------------------|
| ETHANOL<br>64-17-5                 | -0.32                 |
| 2-PROPANOL<br>67-63-0              | 0.05                  |
| METHANOL<br>67-56-1                | -0.77                 |
| METHYL ISOBUTYL KETONE<br>108-10-1 | 1.19                  |

### 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 |
|-----------------------|-----------------------------------|
| ETHANOL<br>64-17-5    | Toxic<br>Ignitable                |
| 2-PROPANOL<br>67-63-0 | Toxic<br>Ignitable                |
| METHANOL<br>67-56-1   | Toxic<br>Ignitable                |

## 14. TRANSPORT INFORMATION

**DOT**

**UN/ID No** 1133  
**Proper shipping name:** Adhesives, Limited Quantity (LQ)  
**Hazard Class** 3  
**Packing Group** III  
**Emergency Response Guide Number** 128

**IATA**

**UN/ID No** ID 8000  
**Proper shipping name:** Consumer commodity  
**Hazard Class** 9  
**ERG Code** 9L

**IMDG**

**UN/ID No** 1133  
**Proper shipping name:** Adhesives, Limited Quantity (LQ)  
**Hazard Class** 3  
**Packing Group** III  
**EmS-No** F-E, S-D

## 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Not determined  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Not determined

**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 % |
|----------------------|-------------------------------|
| 2-PROPANOL - 67-63-0 | 1.0                           |
| METHANOL - 67-56-1   | 1.0                           |

**SARA 311/312 Hazard Categories**

**Acute health hazard** Yes  
**Chronic Health Hazard** No  
**Fire hazard** Yes  
**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)                   |
|------------------------------------|--------------------------|----------------|--|
| METHANOL<br>67-56-1                | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| METHYL ISOBUTYL KETONE<br>108-10-1 | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical Name                     | California Proposition 65                                    |
|-----------------------------------|--|
| ETHANOL - 64-17-5                 | Carcinogen<br>Developmental                                  |
| TITANIUM DIOXIDE - 13463-67-7     | *Carcinogen (airborne, unbound particles of respirable size) |
| METHANOL - 67-56-1                | Developmental  |
| METHYL ISOBUTYL KETONE - 108-10-1 | Carcinogen<br>Developmental                                  |

- \*The asterisked chemical(s) listed are not subject to Proposition 65 because they are not airborne in the finished product
- Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage
- Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage

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

| Chemical Name                        | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------------|------------|---------------|--------------|
| TALC<br>14807-96-6                   | X          | X             | X            |
| ETHANOL<br>64-17-5                   | X          | X             | X            |
| 2-PROPANOL<br>67-63-0                | X          | X             | X            |
| TITANIUM DIOXIDE<br>13463-67-7       | X          | X             | X            |
| WATER<br>7732-18-5                   | -          | -             | X            |
| METHANOL<br>67-56-1                  | X          | X             | X            |
| POLYTETRAFLUOROETHYLENE<br>9002-84-0 | -          | -             | X            |
| METHYL ISOBUTYL KETONE<br>108-10-1   | X          | X             | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**WHMIS Hazard Class**

B2 - Flammable liquid, D2A - Very toxic materials

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <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 02-Apr-2019

**Disclaimer**

The information provided in this 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**