



# SAFETY DATA SHEET

Revision Date 11-May-2020

Version 5

## 1. IDENTIFICATION

**Product identifier**

**Product Name** PX VALVE GRIND COMPOUND 3 OZ.

**Other means of identification**

**Product Code** 80037

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

**Recommended Use** Grinding compound

**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  |
| Carcinogenicity       | Category 1B |

**Label elements**

**Emergency Overview**

**Signal word**

**Danger**

Harmful if swallowed  
May cause cancer

**Appearance** Gray**Physical state** Paste Liquid**Odor** Slight**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

**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 or rash occurs: Get medical advice/attention  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

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

0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name   | CAS No   | Weight-% |
|-----------------|----------|----------|
| SILICON CARBIDE | 409-21-2 | 15 - 40  |
| ETHYLENE GLYCOL | 107-21-1 | 10 - 30  |

### 4. FIRST AID MEASURES

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

Get medical advice/attention if you feel unwell.

**Eye contact**

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. Take off contaminated clothing and wash 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: 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>), Use 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** 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** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

**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. Use personal protective equipment as required.

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

Keep container tightly closed in a dry and well-ventilated place. Keep from freezing.

**Incompatible materials**

Strong oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

| Chemical Name               | ACGIH TLV  | OSHA PEL  | NIOSH IDLH   |
|-----------------------------|--|---|--|
| SILICON CARBIDE<br>409-21-2 | TWA: 10 mg/m <sup>3</sup> nonfibrous, inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica<br>TWA: 3 mg/m <sup>3</sup> nonfibrous, respirable particulate matter, particulate matter containing no asbestos and <1% crystalline silica<br>TWA: 0.1 fiber/cm <sup>3</sup> respirable fibers, including whiskers, length >5 μm, aspect ratio ≥3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination. | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust<br>(vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust |
| ETHYLENE GLYCOL<br>107-21-1 | STEL: 50 ppm vapor fraction<br>STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only<br>TWA: 25 ppm vapor fraction   | (vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 125 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 natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

**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. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties****Physical state**

Paste Liquid

Appearance Gray  
 Odor Slight  
 Odor threshold 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                      | > 100 °C / > 212 °F      |                         |
| Flash point  | > 95 °C / > 203 °F       |                         |
| Evaporation rate                                   | <1                       | Butyl acetate = 1       |
| Flammability (solid, gas)                          | No information available |                         |
| Flammability Limit in Air                          |                          |                         |
| Upper flammability limit:                          | No information available |                         |
| Lower flammability limit:                          | No information available |                         |
| Vapor pressure                                     | No information available |                         |
| Vapor density                                      | >1                       | Air = 1                 |
| Relative density                                   | 1.36                     |                         |
| Water solubility                                   | Soluble in water         |                         |
| 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 |                         |
| <u>Other Information</u>                           |                          |                         |
| Softening point                                    | No information available |                         |
| Molecular weight                                   | No information available |                         |
| VOC Content (%)                                    | 14.83                    |                         |
| Density  | No information available |                         |
| Bulk density                                       | No information available |                         |
| SADT (self-accelerating decomposition temperature) | 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

Excessive heat.

### Incompatible materials

Strong oxidizing agents

### Hazardous Decomposition Products

Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Inhalation

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>    | Harmful if swallowed.  |

| Chemical Name               | Oral LD50            | Dermal LD50                                      | Inhalation LC50 |
|-----------------------------|----------------------|--|-----------------|
| ETHYLENE GLYCOL<br>107-21-1 | = 4700 mg/kg ( Rat ) | = 9530 µL/kg ( Rabbit ) = 10600<br>mg/kg ( Rat ) | -               |

**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 |
|-----------------------------|-------|----------|-----|------|
| SILICON CARBIDE<br>409-21-2 | A2    | Group 2A | -   | X    |

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - *Suspected Human Carcinogen*

IARC (International Agency for Research on Cancer)

*Not classifiable as a human carcinogen*

Group 2A - *Probably Carcinogenic to Humans*

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

X - *Present*

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

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

**ATEmix (oral)** 1938 mg/kg

**ATEmix (dermal)** 41087 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

1.426 % 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 |
|-----------------------------|-----------------------|
| ETHYLENE GLYCOL<br>107-21-1 | -1.93                 |

**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**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**

|                      |                |
|----------------------|----------------|
| <b>TSCA</b>          | Complies       |
| <b>DSL/NDSL</b>      | Complies       |
| <b>EINECS/ELINCS</b> | Complies       |
| <b>ENCS</b>          | Not determined |
| <b>IECSC</b>         | Complies       |
| <b>KECL</b>          | Complies       |
| <b>PICCS</b>         | Complies       |
| <b>AICS</b>          | 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 % |
|----------------------------|-------------------------------|
| ETHYLENE GLYCOL - 107-21-1 | 1.0                           |

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | 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)                   |
|-----------------------------|--------------------------|----------------|--|
| ETHYLENE GLYCOL<br>107-21-1 | 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 |
|-----------------------------|---------------------------|
| ETHYLENE GLYCOL<br>107-21-1 | Developmental             |

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

| Chemical Name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| SILICON CARBIDE<br>409-21-2 | X          | X             | X            |
| ETHYLENE GLYCOL<br>107-21-1 | X          | X             | X            |
| TRIETHANOLAMINE<br>102-71-6 | X          | X             | X            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

**WHMIS Hazard Class**

D2B - Toxic materials

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

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

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

**Revision Date** 11-May-2020

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**End of Safety Data Sheet**