



# SAFETY DATA SHEET

Revision Date 13-May-2020

Version 9

## 1. IDENTIFICATION

### Product identifier

**Product Name** ULTRA COPPER GASKET MAKER 3 OZ.

### Other means of identification

**Product Code** 81878

### 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

#### May Also Be Distributed by:

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

#### 24-hour emergency phone number

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

**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)

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Skin sensitization                | Category 1  |
| Carcinogenicity                   | Category 2  |

### Label elements

#### **Emergency Overview**

#### Signal word

#### **Warning**

Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of causing cancer

**Appearance** Copper**Physical state** Paste Liquid**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  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**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

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name    | CAS No    | Weight-% |
|------------------|-----------|----------|
| IRON OXIDE       | 1309-37-1 | 1 - 5    |
| 2-BUTANONE OXIME | 96-29-7   | 1 - 5    |

### 4. FIRST AID MEASURES

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

If symptoms persist, call a physician.

**Eye contact**

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: Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. |
| <b>Inhalation</b>                         | Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.  |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. Do NOT induce vomiting.  |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required.   |

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

**Symptoms** May cause allergic skin reaction.

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

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use, Use dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray (fog), Alcohol resistant foam

**Unsuitable extinguishing media**

None

**Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**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** Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

**Environmental precautions**

**Environmental precautions** See section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**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. Flood with water to complete polymerization and scrape off floor. Sweep up and shovel into suitable containers for disposal. Slippery, can cause falls if walked on. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly

labeled containers. Take precautionary measures against static discharges.

**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** Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

**Incompatible materials** Strong oxidizing agents, Water, Acids

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name           | ACGIH TLV  | OSHA PEL   | NIOSH IDLH   |
|-------------------------|--|--|--|
| IRON OXIDE<br>1309-37-1 | TWA: 5 mg/m <sup>3</sup> respirable particulate matter | TWA: 10 mg/m <sup>3</sup> fume<br>TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated)<br>TWA: 10 mg/m <sup>3</sup> fume and total dust Iron oxide (vacated)<br>TWA: 5 mg/m <sup>3</sup> respirable fraction regulated under Rouge | IDLH: 2500 mg/m <sup>3</sup> Fe dust and fume<br>TWA: 5 mg/m <sup>3</sup> Fe dust and fume |

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 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** When using do not eat, drink or smoke. 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     | Copper                   |
| Odor           | Mild                     |
| Odor threshold | No information available |

| <u>Property</u>                                    | <u>Values</u>                           | <u>Remarks • Method</u> |
|--|---|-------------------------|
| pH   | 7-8                                     |                         |
| Melting point / freezing point                     | No information available                |                         |
| Boiling point / boiling range                      | No information available Not Applicable | Polymerization          |
| Flash point  | > 93 °C / > 199 °F                      | Tag Closed Cup          |
| 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                                     | <5 mm Hg @ 80°F                         |                         |
| Vapor density                                      | 3.0                                     | Air = 1                 |
| Relative density                                   | 1.05                                    |                         |
| Water solubility                                   | No information available                |                         |
| 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 (%)                                    | <3%, <31.58 g/L                         |                         |
| 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

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents, Water, Acids

### Hazardous Decomposition Products

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Formaldehyde

May release 2-butanone oxime (ethyl methyl ketoxime) at elevated temperature

## 11. TOXICOLOGICAL INFORMATION



Information on likely routes of exposure

|              |   |
|--------------|---|
| Inhalation   | May cause irritation of respiratory tract.  |
| Eye contact  | Contact with eyes may cause irritation. May cause redness and tearing of the eyes.    |
| Skin contact | May cause skin irritation and/or dermatitis. May cause sensitization by skin contact. |
| Ingestion    | Ingestion may cause irritation to mucous membranes.                                   |

| Chemical Name               | Oral LD50             | Dermal LD50                  | Inhalation LC50         |
|-----------------------------|-----------------------|------------------------------|-------------------------|
| IRON OXIDE<br>1309-37-1     | > 10000 mg/kg ( Rat ) | -                            | -                       |
| 2-BUTANONE OXIME<br>96-29-7 | = 930 mg/kg ( Rat )   | 1000 - 1800 mg/kg ( Rabbit ) | > 4.83 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 |
|-------------------------|-------|---------|-----|------|
| IRON OXIDE<br>1309-37-1 | -     | Group 3 | -   | -    |

*IARC (International Agency for Research on Cancer)*

*Not classifiable as a human carcinogen*

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

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

ATEmix (oral) 35835 mg/kg  
 ATEmix (dermal) 5426 mg/kg

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

0.3562 % 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 |
|-----------------------------|-----------------------|
| 2-BUTANONE OXIME<br>96-29-7 | 0.65                  |

Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

|                               |   |
|-------------------------------|---|
| <b>Disposal of wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated packaging</b> | Do not reuse container.   |
| <b>US EPA Waste Number</b>    | Not applicable  |

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

#### 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>          | Not determined |
| <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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### SARA 311/312 Hazard Categories

|  |     |
|--|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | Yes |
| <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, 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 contains the following Proposition 65 chemicals

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

| Chemical Name                    | New Jersey | Massachusetts | Pennsylvania |
|----------------------------------|------------|---------------|--------------|
| IRON OXIDE<br>1309-37-1          | X          | X             | X            |
| 2-Ethylhexanoic acid<br>149-57-5 | 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><u>NFPA</u></b> | Health hazards 2 | Flammability 2 | Instability 0      | -                     |
| <b><u>HMIS</u></b> | Health hazards 2 | Flammability 2 | Physical hazards 0 | Personal protection B |

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

Revision Date 13-May-2020

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End of Safety Data Sheet