



# Rust Killer SDS

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**SAFETY DATA SHEET**  
OSHA HCS (29 CFR 1910.1200)

Gem Rust Killer And  
Metal Prep

## 1. Identification

### Product identifier

**Date** 04/18/2018  
**Product name** Gem Rust Killer And Metal Prep  
**Chemical Name** Mixture

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

**Application** Rust remover/converter  
**Uses advised against** May be corrosive to metals

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

**Supplier** BALANDIS CHEMICAL CO. LLC  
 P.O. Box 31104  
 HOUSTON, TX 77035  
 713-723-6524  
[www.gemrustkiller.com](http://www.gemrustkiller.com)

### Emergency telephone number

**Emergency telephone** PERS emergency response number:  
 1-800-633-8253 (Contract #9390)

## 2. Hazard(s) identification

### Classification of the substance or mixture

**Physical hazards** Flam. Liq. 4 - H227 Met. Corr. 1 - H290  
**Health hazards** Skin Corr. 1B - H314 Eye Dam. 1 - H318

### Label elements

### Pictogram



### Signal word

Danger

**Hazard statements**

H227 Combustible liquid.  
 H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P234 Keep only in original container.  
 P260 Do not breathe vapor/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see medical advice on this label).  
 P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
 P390 Absorb spillage to prevent material damage.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P406 Store in corrosive resistant container with a resistant inner liner.  
 P501 Dispose of contents/container in accordance with national regulations.

**3. Composition/information on ingredients****Hazardous Ingredient(s)**

Phosphoric acid	7664-38-2 (231-633-2)	30 - 50% Corrosive to metals - Cat 1 Skin corrosion - Cat 1B Serious eye damage - Cat 1
Proprietary Glycol Ethers	Proprietary	0.1 - 5% Acute Tox Oral - Cat. 4 Acute Tox Inhalation - Cat 4 Acute Tox Dermal - Cat 4 Skin irritation - Cat 2 Eye irritation - Cat 2A

**Composition comments**

The Full Text for all Hazard Statements is Displayed in Section 16. The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

**4. First-aid measures**

## Description of first aid measures

### General information

Move affected person to fresh air at once. Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.

### Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

### Ingestion

Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

### Skin Contact

Get medical attention immediately. It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water.

### Eye contact

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms are severe or persist after washing.

## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

#### Unsuitable extinguishing media

None known.

### Special hazards arising from the substance or mixture

#### Flammability Class

3.2 Combustible Liquid IIIB.

#### Specific hazards

Combustible liquid.

#### Hazardous combustion products

Toxic gases or vapors.  
Carbon dioxide (CO<sub>2</sub>).  
Carbon monoxide (CO).

### Advice for fire fighters

#### Protective actions during fire fighting

If involved in a fire, shut off flow if it can be done without risk. Fight fire with normal precautions from a reasonable distance. Control run-off water by containing and keeping it out of sewers and watercourses.

#### Special protective equipment for fire fighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

### Personal precautions

No smoking, sparks, flames or other sources of ignition near spillage. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors.

### Environmental precautions

### Environmental precautions

The product contains substances which are water-soluble and may spread in water systems.

### Methods and material for containment and cleaning up

### Methods for cleaning up

Absorb in vermiculite, dry sand or earth and place into containers.

## 7. Handling and storage

### Precautions for safe handling

### Usage precautions

Avoid exposure - obtain special instructions before use. Avoid contact with skin, eyes and clothing. Do not breathe vapor/spray. Use only outdoors or in a well-ventilated area. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

### Conditions for safe storage, including any incompatibilities

### Storage precautions

Store in a cool and well-ventilated place. Protect from sunlight. Store at temperatures not exceeding 50°C/122°F.

### Specific end uses(s)

### Specific end uses(s)

The identified uses for this product are detailed in Section 1.2.

## 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

Phosphoric acid	TWA	1 mg/m <sup>3</sup> - ACGIH
	STEL	3 ppm - ACGIH
	TWA	1 mg/m <sup>3</sup> - OSHA Z-1
	TWA	1 mg/m <sup>3</sup> - OSHA PO
	STEL	3 mg/m <sup>3</sup> - OSHA PO
Proprietary Glycol Ethers	TWA	5ppm - ACGIH
	TWA	50 ppm - OSHA Z-1
	TWA	24 ppm - OSHA PO

### Exposure controls

### Protective equipment



**Eye/face protection**

Wear eye protection. Wear tight-fitting, chemical splash goggles or face shield.

**Hand protection**

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

**Respiratory protection**

Respiratory protection not required.

**Environmental exposure controls**

Keep container tightly sealed when not in use.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance:** Liquid

**Color:** Green

**Odor:** Pungent, acidic

**pH:** 1

**Melting point:** No information available.

**Initial boiling point and range:** 100°C/212°F

**Flash point:** 62°C/145°F TCC (Tag closed cup).

**Evaporation rate:** No information available.

**Evaporation factor:** No information available.

**Flammability (solid, gas):** No information available.

**Upper/lower flammability or explosive limits: Lower: 1.1, Upper:** No information available.

**Vapor pressure:** 17.5 mm Hg @ 20°C

**Vapor density:** No information available.

**Relative density:** No information available.

**Bulk density:** No information available.

**Solubility (yes):** Soluble in water.

**Partition coefficient:** No information available.

**Auto-ignition temperature:** No information available.

**Decomposition Temperature:** No information available.

**Viscosity:** No information available.

**Explosive properties:** No information available.

**Explosive under the influence of a flame:** Not considered to be explosive.

**Oxidizing properties:** No information available.

**Volatile organic compound:** This product contains a maximum VOC content of 12.6 g/l. / 1.4 %.

## 10. Stability and reactivity

### Stability

Stable at normal ambient temperatures and when used as recommended.

### Possibility of hazardous reactions

The following materials may react strongly with the product: Most metals producing hydrogen which is extremely flammable & may explode.

### Conditions to avoid

Keep away from heat, sparks and open flame.

### Materials to avoid

Alkalis. Amines. May be corrosive to metals.

### Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Phosphorus Pent oxide from burning.

## 11. Toxicological information

**Information on toxicological effects****Toxicological effects**

Chronic overexposure may cause damage to kidneys, blood, nerves, liver & lungs. Persons with severe skin, liver or kidney problems should avoid use.

**Skin corrosion/irritation**

Corrosivity to eyes is assumed.

**Serious eye damage/irritation**

Corrosivity to eyes is assumed.

**Respiratory sensitization**

Based on available data the classification criteria are not met.

**Skin sensitization**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity****Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Genotoxicity - in vitro**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity****Reproductive toxicity - fertility**

Based on available data the classification criteria are not met.

**Reproductive toxicity - development**

This substance has no evidence of toxicity to reproduction.

**Specific target organ toxicity - single exposure****STOT - single exposure**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure****STOT - repeated exposure**

Based on available data the classification criteria are not met.

**Aspiration hazard**

Not relevant.

**12. Ecological Information****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Persistence and degradability****Persistence and degradability**

The product is biodegradable.

**Bioaccumulative potential**

**Partition coefficient** Not available.

### **Mobility in soil**

#### **Mobility**

The product is soluble in water.

## **13. Disposal considerations**

### **Waste treatment methods**

#### **General information**

The generation of waste should be minimized or avoided wherever possible.

#### **Disposal methods**

Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

## **14. Transport information**

### **Department of Transportation: (DOT)**

UN3264, Corrosive liquid, acidic, inorganic,  
N.O.S. (Phosphoric Acid Solution), 8, III

In 1 Gallon or smaller sizes, this product is considered  
Limited Quantities and is Not Regulated by DOT.

## **15. Regulatory information**

### **US Federal Regulations**

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

CERCLA Reportable Quantities

Phosphoric Acid (7664-38-2) 5000 lbs

#### **SARA (311/312) Hazard Categories:**

Acute

Fire

### **US State Regulations**

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

#### **Massachusetts "Right To Know" List**

Some of the ingredients are listed or exempt.

#### **New Jersey "Right To Know" List**

Some of the ingredients are listed or exempt.

#### **Pennsylvania "Right To Know" List**

Some of the ingredients are listed or exempt.

### **Inventories**

**EU - EINECS/ELINCS:** All the ingredients are listed or exempt.

**Canada - DSL/NDSL:** All the ingredients are listed or exempt.

**US - TSCA:** All the ingredients are listed or exempt.

**Australia - AICS:** All the ingredients are listed or exempt

**Japan - MITI:** All the ingredients are listed or exempt.

**Korea - KECI:** All the ingredients are listed or exempt.

**China - IECSC:** All the ingredients are listed or exempt.

**Philippines - PICCS:** All the ingredients are listed or exempt.

## 16. Other information

### Training advice

None.

### Revision comments

The following sections contain revisions or new statements: 1-16.

### SDS status

Approved.

### Hazard statements in full

H227 Combustible liquid.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

### NFPA - flammability hazard

Burns only if pre-heated. (1)

### NFPA - health hazard

Extremely hazardous, serious injury. (3)

### NFPA - instability hazard

Normally stable. (0)

## Disclaimer

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**Balandis Chemical Co. LLC • PO Box 31104 • Houston, Texas 77035**  
**[information@gemrustkiller.com](mailto:information@gemrustkiller.com)**  
**Phone (713) 723-6524 • Fax (713) 723-8214**

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