



Rust Killer SDS

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SAFETY DATA SHEET
OSHA HCS (29 CFR 1910.1200)

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
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Emergency telephone number


Emergency telephone	PERS emergency response number: 1-800-633-8253 (Contract #9390)
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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 (CO2). 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/m3 - ACGIH
	STEL	3 ppm - ACGIH
	TWA	1 mg/m3 - OSHA Z-1
	TWA	1 mg/m3 - OSHA PO
	STEL	3 mg/m3 - 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 (CO₂). 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
NFPA - health hazard
NFPA - instability hazard

Burns only if pre-heated. (1)
Extremely hazardous, serious injury. (3)
Normally stable. (0)

Disclaimer

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