

# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** KRUD KUTTER® Rust Remover & Inhibitor

**Synonyms:** Not applicable

**Molecular Formula:** Not applicable

**Molecular Weight:** Not applicable

**Supplier:**

Supreme Chemicals of Georgia, Inc.  
1535 Oak Industrial Lane, Suite B  
Cumming, GA 30041  
USA

**Emergency Telephone:**

(CHEMTREC) 800-424-9300  
(Non-emergency Telephone) 800- 466-7126

**Intended Use:** Dissolves rust/oxidation.

## 2 HAZARDS IDENTIFICATION

### Emergency Overview

**Physical State:** Liquid

**Color:** Light green

**Odor:** Odorless

**WARNING!**

Causes severe eye irritation.

### Potential Health Effects

**Inhalation:** Expected to be a low inhalation hazard. Inhalation of mist or vapors may cause irritation to the mucous membranes and upper respiratory tract.

**Eye Contact:** Causes severe eye irritation. Exposure may cause eye tearing, redness, and discomfort.

**Skin Contact:** May cause mild skin irritation in sensitive individuals. Exposure may cause redness, itching, and inflammation of skin.

**Ingestion:** Not expected to be an ingestion hazard. Exposure may cause gastrointestinal irritation, nausea, vomiting, diarrhea and other systemic effects.

**Chronic Health Effects:** None known

**Target Organ(s):** Eye

**OSHA Regulatory Status:** Hazardous; **Consumer Product Use:** Exempt

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No.	Weight %
Phosphoric Acid	7664-38-2	< 20 %

Components not listed are not hazardous or are below reportable limits

**4 FIRST AID MEASURES**

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion:** If swallowed, DO NOT induce vomiting, unless directed by medical personnel. Get medical attention.

**5 FIRE-FIGHTING MEASURES**

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical or material appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Not applicable

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire & Explosion Hazards:** None known

**Hazardous Combustion Products:** Carbon oxides, phosphorous oxide

**6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear appropriate personal protective equipment. See Section 8.

**Spill Cleanup Methods:** Small Liquid Spills: Wipe up or use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Large Spillages:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use water spray to reduce vapors or divert vapor cloud drift. Isolate and stay upwind. Ventilate enclosed areas. Keep unauthorized personnel away. Prevent entry into waterways, sewer, basements or confined areas.

**7 HANDLING AND STORAGE**

**Handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only with adequate ventilation.

**Prevention of Fire and Explosion:** None

**Storage:** Keep container closed. Store in original container. Keep out of reach of children.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Industrial Exposures:

#### Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Phosphoric Acid	NIOSH	REL	1 mg/m <sup>3</sup>	--
Phosphoric Acid	NIOSH	STEL	3 mg/m <sup>3</sup>	--
Phosphoric Acid	NIOSH	IDLH	1000 mg/m <sup>3</sup>	--
Phosphoric Acid	ACGIH	TWA	1 mg/m <sup>3</sup>	Upper respiratory tract eye & skin irritant
Phosphoric Acid	ACGIH	STEL	3 mg/m <sup>3</sup>	Upper respiratory tract eye & skin irritant
Phosphoric Acid	OSHA	Z-1 PEL	1 mg/m <sup>3</sup>	--
Phosphoric Acid	California	TWA	1 mg/m <sup>3</sup>	--
Phosphoric Acid	California	STEL	3 mg/m <sup>3</sup>	--
Phosphoric Acid	Alberta, Canada	TWA	1 mg/m <sup>3</sup>	Irritation
Phosphoric Acid	Alberta, Canada	STEL	3 mg/m <sup>3</sup>	Irritation
Phosphoric Acid	British Columbia, Canada	TWA	1 mg/m <sup>3</sup>	--
Phosphoric Acid	British Columbia, Canada	STEL	3 mg/m <sup>3</sup>	--
Phosphoric Acid	Ontario, Canada	TWAEV	1 mg/m <sup>3</sup>	--
Phosphoric Acid	Ontario, Canada	STEL	3 mg/m <sup>3</sup>	--
Phosphoric Acid	Mexico	TWA	1 mg/m <sup>3</sup>	--
Phosphoric Acid	Mexico	STEL	3 mg/m <sup>3</sup>	--

**Engineering Controls:** Not generally required when handling product. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government

approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Eye Protection:** Wear splash goggles and a face shield or safety glasses with side shields.

**Hand Protection:** Wear chemical resistant gloves.

**Skin Protection:** Wear protective clothing appropriate for the risk of exposure.

**Hygiene Measures:** Eye wash, washing facilities

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Color:** Light green

**Odor:** Odorless

**Physical State:** Liquid

**pH:** No data available

**Boiling Point:** 216° C (420.8° F)

**Melting Point:** < -1.1° C (30° F)

**Flash Point:** None

**Evaporation Rate:** < 1 (Water = 1)

**Flammability:** None

**Flammability Limit – Upper (%):** Not applicable

**Flammability Limit – Lower (%):** Not applicable

**Vapor Pressure:** 17 mm Hg (@ 20 °C) (68° F)

**Vapor Density (Air=1):** 3.2

**Specific Gravity:** 1.13

**Solubility in Water:** Complete

**Partition Coefficient (n-Octanol/water):** No data available

**Autoignition Temperature:** Not applicable

**Decomposition Temperature:** No data available

**Volatile Organic Compounds (VOC):** 1%

**Viscosity:** No data available

**Percent Volatile:** 1 %

## 10 STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** None known

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** Carbon oxides, phosphorous oxide

**Possibility of Hazardous Reactions:** Will not occur.

## 11 TOXICOLOGICAL INFORMATION

Information available upon request.

**Listed Carcinogens:** None

## 12 ECOLOGICAL INFORMATION

Rust Remover & Inhibitor is biodegradable.

## 13 DISPOSAL CONSIDERATIONS

**General Information:** Dispose in accordance with applicable federal, state, and local regulations.

**Disposal Methods:** No specific disposal method required.

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14 TRANSPORT INFORMATION

**DOT:** ORM-D

**Proper Shipping Name:** Consumer Commodity

**Packaging Requirements:** Inner packagings not over 5.0 Liters (1.3 Gallons) net capacity each for liquids, and packed in strong outer packagings.

**Packages over 5.0 Liters (1.3 Gallons):**

**UN-Number:** 1805

**Proper Shipping Name:** Phosphoric Acid Solution

**Class:** 8

**Packaging Group:** III

**Emergency Response Guide Number:** 154

**TDG:**

**UN-Number:** 1805

**Proper Shipping Name:** Phosphoric Acid Solution

**Class:** 8

**Packaging Group:** III

**Emergency Response Guide Number:** 154

**IATA:**

**UN-Number:** 1805

**Proper Shipping Name:** Phosphoric Acid Solution

**Class:** 8

**Packaging Group:** III

**Label:** Corrosive

**Emergency Response Guide Number:** 154

**Passenger & Cargo Aircraft Packing Instructions:** Y819:

**For Limited Quantities of liquids of Class 8 Packing Group III:****Passenger & Cargo Aircraft Limited Quantity Maximum Quantity Package: 1 Liter**

Single packagings are not permitted. The inner packagings must be packed in one of the following outer packagings with sufficient cushioning/absorbent material so as to prevent movement/leakage. The maximum quantity must not exceeded. Inner packagings: glass earthenware, plastic, metal (not aluminum), or glass ampoule.

Outer Packaging: Steel packagings must be corrosion-resistant or with protection against corrosion. Glass or earthenware inner packagings and glass ampoules must be packaged with absorbent material in tightly closed metal or rigid plastic receptacles in outer packagings. Glass or earthenware inner packagings and glass ampoules are permitted if this item is free from hydrofluoric acid.

**Outer Packaging: Drums:** Steel, aluminum, plywood, fiber, plastic. **Jerricans:** Steel, Aluminum, Plastic; **Boxes:** UN Certified Box, Steel, aluminum, wood, plywood, reconstituted wood, fiber board and plastic

**Passenger & Cargo Aircraft Packing Instructions: 819****Passenger & Cargo Aircraft Maximum Quantity/Package: 5 Liters**

Single packagings are not permitted. The inner packagings must be packed in one of the following outer packagings with sufficient cushioning/absorbent material so as to prevent movement/leakage. The maximum quantity must not exceeded. Inner packagings: glass earthenware, plastic, metal (not aluminum), or glass ampoule.

Outer Packaging: Steel packagings must be corrosion-resistant or with protection against corrosion. Glass or earthenware inner packagings and glass ampoules must be packaged with absorbent material in tightly closed metal or rigid plastic receptacles in outer packagings. Glass or earthenware inner packagings and glass ampoules are permitted if this item is free from hydrofluoric acid.

**Outer Packaging: Drums:** Steel (1A2), aluminum (1B2), plywood (1D), fiber (1G), plastic (1H2).

**Jerricans:** Steel (4A), Aluminum (4B), Plastic (3H2);

**Boxes:** UN Certified Box, Steel (4A), aluminum (3B2), wood (4C1,4C2), plywood (4D), reconstituted wood (5F), fiber board (4G) and plastic (4H1, 4H2).

**Cargo Aircraft Only Package Instruction: 821****Cargo Aircraft Only Maximum Quantity/Package: 60 Liter**

Combination and single packagings are permitted. The inner packagings must be packed in one of the following outer packagings with sufficient cushioning/absorbent material so as to prevent movement/leakage. Combination packagings: inner packagings: Glass or earthenware, plastic, metal (not aluminum) or glass ampoule.

Outer packaging: Steel (1A2), aluminum (1B2), plywood (1D), fiber (1G), plastic (1H2). **Jerricans:** Steel (3A2), Aluminum (3B2), Plastic (1H2);

**Boxes:** UN Certified Box, Steel(4A), aluminum (4B), wood (4C1,4C2), plywood (4D), reconstituted wood (4F), fiber board (4G) and plastic (4H1, 4H2).

**Special Provisions:** A3

**ERG Code:** 8L

**IMDG:**

**Limited Quantities Exception:** Dangerous Goods in limited quantities of Class 8.

Limited quantities must be packed in combination packaging. The inner packaging must be within the quantity limit specified in the Dangerous Goods List (DGL) for the substance being prepared for shipment and be packaged in suitable outer packaging. The gross mass of the package must not exceed 30 kilograms (66 pounds). UN Certified Box,

**For over 30 kilograms (66 pounds):**

**UN-Number:** 1805  
**Proper Shipping Name:** Phosphoric Acid Solution  
**Class:** 8  
**Packaging Group:** III  
**EMS No:** F-A, S-B  
**Special Provision:** 223  
**Packing Instructions:** P001, LP01  
**IBC 03**  
**Portable tanks and bulk containers:**  
 IMO Tank Instructions: T3  
 UN Tank Instructions: T4  
 Provisions: TP1  
 Stowage and Segregation: Category A

<b>15 REGULATORY INFORMATION</b>
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**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** D2B

**Mexico – Phosphoric Acid:** 3-0-0-3; PPE: F

**Inventory Status**

**This product or all components are listed on the following inventory:** TSCA

**DSL Inventory:** No information available

**US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):**

Component	Reportable Quantity
Phosphoric Acid	5,000 lbs

**SARA Title III**

**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None

**Section 311/312 (40 CFR 370):** None

**Section 313 Toxic Release Inventory (40 CFR 372):** None

**Clean Air Act (CCA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants:** None

**Clean Air Act (CAA) Section 112(i) High-Risk Hazardous Air Pollutants (40 CFR 63.74):** None

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** None

**Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15):** None

**Clean Water Act Section 311 Hazardous Chemical (40 CFR 116.4):** None

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

Component	Reportable Quantity
Phosphoric Acid	5,000 lbs

**Drug Enforcement Act:** None**TSCA:** None**State Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** None**Massachusetts Right-To-Know List:** Phosphoric Acid**Minnesota Hazardous Substances List:** Phosphoric Acid**New Jersey Right-To-Know List:** Phosphoric Acid**Pennsylvania Right-To-Know Substances:** Phosphoric Acid**16 OTHER INFORMATION****Hazard Ratings**

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
<b>NFPA</b>	2	0	0	N/A

	Health Hazard	Fire Hazard	Reactivity Hazard
<b>HMIS</b>	2	0	0

0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe; \*- Chronic health effect

**Revision Information:** All sections of the MSDS revised.**Prepared by:** Supreme Chemicals of Georgia, Inc.**Issue Date:** 5/31/07**Supersedes Date:** 02/15/06

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