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# Safety Data Sheet



## 1. Identification

Product Name: KRDKUT 5-GL METAL CLEAN ETCH Revision Date: 4/11/2016

Product Identifier: ME05 Supercedes Date: 11/5/2015

Product Use/Class: Metal Clean & Etch/ Phosphoric Acid

Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation 11 Hawthorn Parkway 11 Hawthorn Parkway

11 Hawthorn Parkway
Vernon Hills, IL 60061

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Vernon Hills, IL 60061

USA

USA

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

## 2. Hazard Identification

#### Classification

Symbol(s) of Product



Signal Word Danger

#### **GHS HAZARD STATEMENTS**

Skin Corrosion, category 1B H314 Causes severe skin burns and eye damage.

Acute Toxicity, Inhalation, category 4 H332 Harmful if inhaled.

## GHS LABEL PRECAUTIONARY STATEMENTS

P260 Do not breathe dust, fumes, gases, mists, vapors, or spray.

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.

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 or doctor/physician.

### **GHS SDS PRECAUTIONARY STATEMENTS**

P363 Wash contaminated clothing before reuse.

## 3. Composition/Information On Ingredients

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#### **HAZARDOUS SUBSTANCES**

<u>Chemical Name</u>	CAS-No.	<u>Wt.%</u> Range	GHS Symbols	GHS Statements
Phosphoric Acid	7664-38-2	25-50	GHS05-GHS06	H312-314-331

## 4. First-aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Immediately flush skin with plenty of water for at least 15 minutes while removing clothing. Get medical attention immediately. Wash clothing separately before reuse. Destroy contaminated shoes.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively. Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

## 5. Fire-fighting Measures

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep containers tightly closed. No unusual fire or explosion hazards noted. **SPECIAL FIREFIGHTING PROCEDURES:** Containers can rupture and release highly toxic material if exposed to heat. Substance is non-combustible but reacts with many metals to form explosive hydrogen gas. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

#### Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Avoid runoff into sewers and waterways. Provide ventilation and approach spill from upwind using proper personal protective equipment as indicated in Section 8. Carefully neutralize spill with sodium bicarbonate (NaHCO3). Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

# 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Store in a dry, well ventilated place. Keep container tightly closed when not in use.

# 8. Exposure Controls/Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Phosphoric Acid	7664-38-2	35.0	1 mg/m3	3 mg/m3	1 mg/m3	N.E.

#### PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve crossventilation.

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**RESPIRATORY PROTECTION:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Use impervious gloves to prevent skin contact and absorption of this material through the skin. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots and chemical safety goggles plus a face shield. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

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**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Explosive Limits, vol%:

N.A. - N.A.

## 9. Physical and Chemical Properties

**Physical State:** Appearance: Liquid Liquid Odor: Solvent Like **Odor Threshold:** N.E. Relative Density: pH: 1.0 - 3.01.200 Freeze Point, °C: 30 Viscosity: No Information

Solubility in Water: Soluble Partition Coefficient, n-octanol/

Decompostion Temp., °C: N.D. water:

Flammability:Does not Support CombustionFlash Point, °C:94Evaporation Rate:Slower than EtherAuto-ignition Temp., °C:N.D.Vapor Density:Heavier than AirVapor Pressure:N.D.

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

Boiling Range, °C:

CONDITIONS TO AVOID: Avoid contact with strong acid and strong bases. Avoid contact with metals.

**INCOMPATIBILITY:** Incompatible with strong oxidizing agents, strong acids and strong alkalies. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces.

HAZARDOUS DECOMPOSITION: Decomposition produces hydrogen chloride, chlorine and hydrogen gases.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

# 11. Toxicological information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Substance causes severe eye irritation. Injury may be permanent.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** Substance is corrosive. Causes severe skin burns. Severely irritating; may cause permanent skin damage. Corrosive; causes skin burning.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Corrosive and may cause severe and permanent damage to mouth, throat and stomach. Substance may be harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated exposure to low concentrations of HCI vapor or mist may cause bleeding of nose and gums.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Contact

#### **ACUTE TOXICITY VALUES**

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.Chemical NameOral LD50Dermal LD50Vapor LC507664-38-2Phosphoric Acid2600 mg/kg Rat1260 mg/kg Rabbit5.337 mg/L Rabbit

N.I. - No Information

# 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

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## 13. Disposal Information

**DISPOSAL INFORMATION:** Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

## 14. Transport Information

The transport information								
	Domestic (USDOT)	International (IMDG)	<u>Air (IATA)</u>	TDG (Canada) 1805				
UN Number:	1805	1805	1805					
Proper Shipping Name:	Phosphoric Acid solution	Phosphoric Acid solution	Phosphoric Acid solution	Phosphoric Acid solutions				
Hazard Class:	8	8	8	8				
Packing Group:	III	III	III	III				
Limited Quantity:	No	No	No	No				

## 15. Regulatory Information

# **U.S. Federal Regulations:**

## **CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical NameCAS-No.Phosphoric Acid7664-38-2

#### **Toxic Substances Control Act:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

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## 16. Other Information

**HMIS RATINGS** 

Health: 3\* Flammability: 0 Physical Hazard: 0 Personal Protection: X

**NFPA RATINGS** 

Health: 3 Flammability: 0 Instability 0

VOLATILE ORGANIC COMPOUNDS, g/L: 0

SDS REVISION DATE: 4/11/2016

**REASON FOR REVISION:** Substance and/or Product Properties Changed in Section(s):

11 - Toxicological Information 14 - Transport Information Statement(s) Changed

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.