

# MATERIAL SAFETY DATA SHEET

RUST RAIDER / METAL ETCH

FILE NO: 1841  
MSDS DATE: 4/8/09

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: RUST RAIDER / METAL ETCH (1 US Gallon)  
SYNONYMS: None  
PRODUCT CODES: 1841

MANUFACTURER: INTERNATIONAL EPOXIES & SEALERS  
ADDRESS: 30241 COMMERCE DR.  
SAN ANTONIO, FL 33576

24 HOUR EMERGENCY PHONE (INFOTRAC) 800-535-5053  
INFORMATION PHONE: (800) 451-7206

CHEMICAL FAMILY: Mixture / not applicable

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>PERCENT</u>
Phosphoric acid	007664-38-2	34
Sodium bichromate	010588-01-9	0.01
Non-hazardous & other ingredients	Various	Balance
Below reportable levels		

### SECTION 2 NOTES:

Trace impurities and additional material names not listed above may also appear in the Regulatory Information Section (Section 15) towards the end of the MSDS. These materials may be listed for local "Right to Know" compliance and for other reasons.

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## SECTION 3: HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW:

#### WARNING!

Causes severe skin and eye burns.  
Harmful if inhaled.

### POTENTIAL HEALTH EFFECTS

**EYES:** Contact with the eyes may cause burns, tearing, and blindness.

**SKIN:** Contact with the skin can cause severe irritation or burns. This material causes destruction of body tissue.

**INGESTION:** Ingestion may cause severe irritation or burns of the mucous membranes of the mouth, throat, esophagous, and stomach. Ingestion can cause severe abdominal distress and may be fatal.

**INHALATION:** Inhalation may result in respiratory irritation and coughing. Inhalation of dusts or mists can damage upper respiratory tract and lung tissue depending on the extent of exposure.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure to this product.

### SECTION 3 NOTES:

Components found on one of the OSHA designated carcinogen lists are listed below:

INGREDIENT	NTP	IARC	OSHA
Phosphoric acid	N	N	N
Sodium bichromate	Y	Y	N

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.  
Arsenic, Cadmium, Lead

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## SECTION 4: FIRST AID MEASURES

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- EYES:** Flush eyes with water for at least 15 minutes. Get immediate medical attention.
- SKIN:** Remove contaminated clothing and shoes. Wash exposed areas with soap and water. Call a physician if irritation persists.
- INGESTION:** Do not induce vomiting. Give 1 – 2 glasses of water to dilute. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Do not give anything by mouth to an unconscious person. Get immediate medical attention.
- INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.
- NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:**  
Aspiration of this product during emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

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## SECTION 5: FIRE-FIGHTING MEASURES

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- FLAMMABLE LIMITS IN AIR, UPPER:** N/AP  
(% BY VOLUME)                      **LOWER:** N/AP
- FLASH POINT:**  
F: N/AP  
C: N/AP
- AUTOIGNITION TEMPERATURE:**  
F: N/AP  
C: N/AP
- EXTINGUISHING MEDIA:** This product is not flammable. Use extinguishing media for surrounding fire.
- SPECIAL FIRE FIGHTING PROCEDURES:** Use NIOSH-approved self-contained breathing apparatus and comparable protective clothing when fighting chemical fires. Use fog nozzles if water is used. Water spray may be ineffective on fire but can be used to protect fire fighters and cool closed containers.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may build up pressure and rupture if exposed to extreme heat.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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- ACCIDENTAL RELEASE MEASURES:**
- SMALL SPILLS:** Neutralize with sodium bicarbonate or equal parts of soda ash slaked lime. Contain spill and ventilate area. Sweep up and containerize for disposal.
- LARGE SPILLS:** Contain spill and ventilate area. Permit only trained personnel wearing full protective equipment to enter the spill area. Contain the spill in a waste container or remove with a vacuum truck. Prevent spill from entering natural watercourses.

### SECTION 6 NOTES:

- Wear complete protective clothing when cleaning up chemical spills.
- Spills and releases may have to be reported to federal and / or local authorities. See the Regulatory Information section (section 15) regarding reporting requirements.

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## SECTION 7: HANDLING AND STORAGE

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- HANDLING:** Avoid contact with skin, eyes, and clothing. Avoid breathing product vapors and mists. Do not take internally. Wash thoroughly after handling this material.
- STORAGE:** Keep container closed when not in use. This material should be stored at moderate temperatures.

This material should be stored in well ventilated areas. Store in a cool, dry place.  
The empty container is hazardous.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

**VENTILATION :** Use a ventilation system to maintain atmospheric concentrations below published exposure limits. Corrosion-proof fans should be used in a mechanical-type ventilation system.

**RESPIRATORY PROTECTION:** If engineering controls do not maintain airborne concentrations below Recommended limits, wear a NIOSH-approved respirator for dusts and mists.

**EYE PROTECTION:** Wear chemical safety goggles.

**SKIN PROTECTION:** Wear protective gloves made of neoprene or rubber.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Emergency showers, eye-wash stations, and fire blankets should be accessible. Wear protective clothing.

### EXPOSURE GUIDELINES:

INGREDIENT	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Phosphoric acid	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Sodium bichromate	N/EST	N/EST	N/EST	N/EST

v = vacated by 58 FR 3538, June 30, 1993

**SECTION 8 NOTES:** See 29 CFR 1910.1000 (D) (2) and ACGIH "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices" booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Green
ODOR:	Pungent odor
PHYSICAL STATE:	Liquid
MOLECULAR WEIGHT:	N/AV
SPECIFIC GRAVITY:	1.19 – 1.21
SOLUBILITY (WATER):	Soluble
BOILING POINT:	<215° F
MELTING POINT:	N/AV
FREEZING POINT:	N/AV
PRODUCT pH (@ 23 C):	<2
VAPOR PRESSURE:	N/AV
VAPOR DENSITY:	N/AV
EVAPORATION RATE:	N/AV
@ VOLATILES:	N/AV

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SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Containers may rupture or explode is exposed to heat.  
Dangerous gases may accumulate in confined spaces.

INCOMPATIBILITY (MATERIAL TO AVOID): Combustible materials, bases, metals, oxidizing materials. Alkalies.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of phosphorus

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### TOXICOLOGICAL INFORMATION:

#### IMMEDIATE EFFECTS

LD50: 1530 mg/kg – oral – rat  
LDLo: 220 mg/kg – unreported – man

#### DELAYED EFFECTS (CHRONIC AND SUBCHRONIC)

CARCINOGENICITY: This product contains a confirmed human carcinogen. The agent carcinogenic to humans bases on the weight of evidence from epidemiologic studies of, or convincing evidence in, exposed humans.

MUTAGENICITY: No data available

EPIDEMIOLOGY: No data available

TERATOGENICITY: No data available

REPRODUCTIVITY: No data available

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL METHOD:

RCRA HAZARD CLASS: D002

VOC CONTENT (1 lbs/gal): N/AV

Discharge, treatment, or disposal may be subject to Federal, State, or Local laws. State and Local regulations and restrictions are complex and may differ from Federal disposal regulation.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA Classification and the proper disposal method.

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## SECTION 14: TRANSPORT INFORMATION

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U.S. DEPARTMENT OF TRANSPORTATION - (For inner packagings not exceeding 5 L, each packaged in a strong outer box: Consumer Commodity ORM-D)

PROPER SHIPPING NAME: Phosphoric Acid Solution  
HAZARD CLASS: 8  
ID NUMBER: UN1805  
PACKING GROUP: III  
LABEL STATEMENT: Corrosive  
IMDG HAZARD CLASS: 8  
ICAO HAZARD CLASS: 8

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## SECTION 15: REGULATORY INFORMATION

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U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):

TSCA INVENTORY STATUS: Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

"REPORTABLE QUANTITY" (RQ): 14706 lbs. (Phosphoric acid)

Spills/releases resulting in the loss of this product at or above its RQ requires immediate notification to the National Response Center (1-800-424-8802) and to your Local Emergency Planning Committee.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

INGREDIENT	Section 313	Section 302
Phosphoric acid	yes	no
Sodium bichromate	yes	no

311/312 HAZARD CATEGORIES: Immediate (acute) health hazard

WHMIS CLASSIFICATION (CANADA): CLASS E

FOREIGN INVENTORY STATUS: No data available

ADDITIONAL REGULATORY INFORMATION:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.  
Arsenic, Cadmium, Lead

MASSACHUSETTS SUBSTANCE LIST: Arsenic, Cadmium, Phosphoric acid

NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST: Phosphoric acid

PENNSYLVANIA HAZARDOUS SUBSTANCE LIST: Phosphoric acid

This product may contain trace amounts of arsenic (CAS#7440-38-2).  
This product may contain trace amounts of cadmium (CAS#7440-43-9).  
This product may contain trace amounts of lead (CAS#7439-92-1).

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

The information herein is presented in good faith and is believed to be correct as of the date hereof. However, International Epoxies & Sealers makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

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