

Artisan® Metal Restorer Safety Data Sheet

Section 1. Identification

Product Name: Artisan® Metal Restorer

Recommended use: Rust Remover

Restrictions on use: Use only as directed

Manufacturer Name: Chemique, Inc.
Address: 315 N. Washington Avenue
Moorestown, NJ 08057
Telephone number: (856) 235-4161

Emergency phone number: (800) 535-5053 (Infotrac)

Date of Preparation: March 5, 2014

Section 2. Hazard(s) Identification

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Classification:

Physical	Health
	Skin Corrosion Category 1B

Danger!



Hazard statement(s)

Causes severe skin burns and eye damage.

Precautionary statement(s)

Do not breathe mists.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection and face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.
Dispose of contents and container in accordance with local
and national regulations.

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Phosphoric Acid	7664-38-2	15-30%
Non-Ionic Surfactant	Proprietary	1-5%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First-Aid Measures

Inhalation: Remove to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

Skin contact: Immediately flush skin thoroughly with water for 15 minutes. Wash area with soap and water. Remove contaminated clothing and launder before reuse. Get immediate medical attention.

Eye contact: Immediately flush eyes with water for at least 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

Ingestion: If conscious, give 1 glass of water or milk to dilute. DO NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

Most important symptoms/effects, acute and delayed: Causes severe eye irritation or burns with possible corneal damage and blindness. Skin contact may cause severe irritation or burns. Vapors or mists may cause irritation mucous membranes and respiratory tract with possible pulmonary edema. Ingestion may cause gastrointestinal corrosion, abdominal pain, nausea, shock or death.

Indication of immediate medical attention and special treatment, if necessary: Medical treatment is required for all incidents of contact or exposure.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use any media that is suitable for the surrounding fire.

Specific hazards arising from the chemical: Contact with alkalis and metals may evolve flammable hydrogen gas. Emits toxic fumes under fire conditions.

Special protective equipment and precautions for fire-fighters: At elevated temperatures containers may rupture. Contact with metals may release flammable hydrogen gas. Contents are corrosive and all personal contact must be avoided.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing and equipment to prevent eye and skin contact.

Environmental precautions: Avoid release to the environment. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Absorb with an inert material such as sand or vermiculite. Collect into closable containers for disposal. Small spills may be neutralized with soda ash. Do not use combustible materials such as saw dust.

Section 7. Handling and Storage

Precautions for safe handling: Prevent eye and skin contact. Do not breathe mists or aerosols. Use only with appropriate protective equipment. Immediately remove and launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

Empty containers retain product residues. Follow all SDS precautions in handling empty containers.

Conditions for safe storage, including any incompatibilities: Protect containers from physical damage. Store in a cool, well-ventilated area away from alkalies and other incompatible materials.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Phosphoric Acid	1 mg/m ³ TWA OSHA PEL 1 mg/m ³ TWA ACGIH TLV 3 mg/m ³ STEL ACGIH TLV
Surfactant	None Established

Appropriate engineering controls: For operations where exposures limits are exceeded increased mechanical ventilation such as local exhaust may be required.

Personal Protective Equipment:

Respiratory protection: Good general ventilation (equivalent to outdoors) should be adequate under normal conditions. For spray application or areas where exposure limits are exceeded, a NIOSH approved dust/mist or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

Skin protection: Rubber or other impervious gloves are recommended to prevent skin contact. Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

Eye protection: Chemical safety goggles and/or face shield should be worn if splashing is possible. Do not wear contact lenses.

Other: For operations where contact can occur, a safety shower and an eye wash facility should be available.

Section 9. Physical and Chemical Properties

Appearance (physical state, color, etc.): Slightly thickened, opaque, yellow liquid.

Odor: Cherry odor.

Odor threshold: Not available	pH: 1
Melting point/freezing point: Not available	Boiling Point: 212° / 100°C
Flash point: Not flammable	Evaporation rate: Same as water

Flammability (solid, gas): Not applicable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Same as water	Vapor density: Not available
Relative density: 1.4	Solubility(ies): Completely soluble in water
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: Not applicable
Decomposition temperature: Not available	VOC: <14 g/L

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable

Possibility of hazardous reactions: Contact with metals may release flammable hydrogen gas.

Conditions to avoid: None known.

Incompatible materials: Avoid caustics, alcohols, aldehydes, cyanides, combustible materials, ketones, metals, phenols, esters, sulfides and halogenated organics.

Hazardous decomposition products: Thermal decomposition may produce carbon and phosphorus oxides.

Section 11. Toxicological Information

Acute effects of exposure:

Inhalation: Mist and vapors may cause irritation to the eyes, mucous membranes and upper respiratory tract. High concentrations may cause severe irritation and pulmonary edema.

Skin Contact: May cause severe irritation and burns with reddening and pain. Prolonged or repeated skin contact with diluted solutions or mists may cause dermatitis.

Eye Contact: Liquid or mists may cause severe irritation or burns with tearing and blurred vision. Permanent damage and blindness may occur.

Ingestion: May cause gastrointestinal corrosion, abdominal pain and nausea, circulatory shock and death.

Chronic Effects: Repeated skin contact with diluted solutions or mists may cause dermatitis.

Sensitization: None of the components are sensitizing to animals or humans.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: None of the components have been shown to cause reproductive or developmental toxicity.

Carcinogenicity: None of the other components of this product are listed as carcinogens or suspected carcinogens by IARC, NTP, ACGIH or OSHA.

Acute toxicity values: Acute Toxicity Estimate: Oral 7186 mg/kg

Phosphoric Acid: Oral rat LD50 1530 mg/kg, Inhalation rat LC50 3846 mg/m³/1 hr; Dermal rabbit 2740 mg/kg

Surfactant: Oral rat LD50 3000 mg/kg; Dermal rabbit LD50 4400 mg/kg

Section 12. Ecological Information

This product may be harmful to aquatic organisms due to change in pH of water where released.

Ecotoxicity values:

Phosphoric Acid: 96 hr LC50 *Lepomis macrochirus* 3 mg/L

Surfactant: 96 hr LC50 *Lepomis macrochirus* 7.9 mg/L

Persistence and degradability: Biodegradation is not applicable to inorganic substances such phosphoric acid. Surfactant is not readily biodegradable (44.5% in 28 days)

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: None known.

Section 13. Disposal Considerations
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Dispose in accordance with all local, state and federal regulations.

Section 14. Transport Information
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	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Container <1.3 gal Limited Quantity			None
DOT	UN1805	Container > 1.3 gal. Phosphoric Acid Solution	8	PGIII	None
TDG		Container <5 liters Limited Quantities			None
TDG	UN1805	Phosphoric Acid Solution	8	PGIII	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

Section 15. Regulatory Information

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Phosphoric Acid (30% maximum) of 5,000 lbs, is 16,666 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute health

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:

Phosphoric Acid	7664-38-2	15-30%
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California Proposition 65: This product the following chemicals known to the State of California to cause cancer or reproductive toxicity: Ethylene oxide 75-21-8 <0.2 ppm (cancer, developmental, female reproductive toxicity, male reproductive toxicity); 1,4 dioxane 123-91-1 <0.09 ppm (cancer)

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

CANADA:

Canadian WHMIS Classification: Class E (Corrosive)

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Section 16. Other Information

SDS Revision History: New SDS

Date of preparation: March 5, 2014

Date of last revision: None