

# Material Safety Data Sheet

Date last reviewed: September 8, 1999

## I. General Information

Chemical Name & Synonyms <b>Proprietary Mixture</b>	Trade Name & Synonyms <b>Safe 'n Easy Metal Restorer</b>
Chemical Family <b>Acidic Mixture</b>	Formula <b>Mixture</b>
Proper DOT Shipping Name <b>Phosphoric Acid Solution, 8, UN1805, PG II</b>	DOT Hazard Classification <b>Corrosive Liquid</b>
Manufactured for: <b>Dumond Chemicals, Inc.</b>	Information Phone Number <b>(212) 869-6350</b>
Address <b>1501 Broadway, New York, NY 10036</b>	Emergency Number: <b>(800) 535-5053 (Info Trac)</b>

## II. Ingredients

Principal Hazardous Components	CAS #	Percent	OSHA PEL	ACGIH TLV
Nonionic surfactant - alkylphenol ethoxylate	9016-45-9	1-10	None Established	None Established
2-Butoxyethanol	111-76-2	5-15	50 ppm (skin) TWA	20 ppm (skin) TWA
*Phosphoric Acid	7664-38-2	1-10	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup> TWA 3 mg/m <sup>3</sup> STEL

\*SARA 313: Phosphoric Acid is a regulated chemical under SARA Title III, Section 313.

## III. Physical Data

Boiling Point (°F) Not available	Specific Gravity (H <sub>2</sub> O =1) Approximately 1
Vapor Pressure (mm Hg) Not available	Percent Volatile by Volume (%) Not determined
Vapor Density (Air=1) Not available	Evaporation Rate (Butyl Acetate =1) Same as water
Solubility in Water Complete	pH Not available
Appearance & Odor Thick yellow/orange liquid .	

## IV. Fire & Explosion Hazard Data

Flash Point (Test Method) None	Autoignition Temperature None		
Flammable Limits None	LEL N/A	UEL N/A	
Extinguishing Media This material is not combustible. Use media appropriate for the surrounding fire.			
Special Fire Fighting Procedures Wear full emergency equipment and NIOSH approved positive pressure SCBA. Cool containers with water.			
Unusual Fire & Explosion Hazards None known.			
HMIS Ratings	Health: 2*	Flammability: 0	Reactivity: 0

### V. Health Hazard Data

OSHA Permissible Exposure Limit <b>See Section II</b>	ACGIH Threshold Limit Value <b>See Section II</b>
Carcinogen - NTP Program <b>No</b>	Carcinogen - IARC <b>No</b>
Symptoms of Exposure <u>Acute Effects:</u> Eyes: Contact may cause severe irritation or burns. Prolonged contact may cause permanent eye damage. Skin: Contact may cause severe irritation or burns. 2-Butoxyethanol can be absorbed through the skin causing central nervous system effects including headache and nausea. Inhalation: Mists may cause respiratory irritation. Ingestion: Swallowing may cause severe gastrointestinal irritation or burns with abdominal pain and nausea. Large amounts may cause shock, circulatory collapse and death.	
<u>Chronic Effects:</u> Prolonged or repeated exposure may cause metabolic acidosis and changes in the kidney and liver.	
Medical Conditions Aggravated By Exposure: Individuals with chronic pulmonary, skin, kidney or liver disorders.	
Primary Route(s) of Entry: Eye, skin, inhalation, ingestion	
Emergency First Aid Eye: Immediately flush with water for 15 minutes. Get immediate medical attention. Skin: Immediately wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Inhalation: Remove to fresh air. Restore breathing. Get medical attention. Ingestion: If conscious, give large quantities of water to dilute. Do not induce vomiting. Get immediate medical attention.	

### IV. Reactivity Data

Stability	X	Unstable  Stable	Conditions to Avoid Contact with chlorides and stainless steel may release flammable hydrogen gas.
Incompatibility Avoid aldehydes, amines, amides, caustics, ketones, organic peroxides, sulfides, cyanides, alkalies, strong oxidizing agents, ammonia, chlorates and sodium hydroxide.			
Hazardous Polymerization	X	May Occur Will Not Occur	Conditions to Avoid N/A
Hazardous Decomposition Thermal decomposition may yield toxic carbon dioxide, carbon monoxide, aldehydes, ketones and phosphorus oxides.			

### VII. Environmental Protection Procedures

Spill Response Wear appropriate protective clothing and equipment. Dike spill and neutralize with sodium bicarbonate. Collect into closable containers with an inert absorbent. Prevent spill from entering sewers and waterways. Wash spill area with water.	
Waste Disposal Method Dispose in accordance with all state, local and federal regulations.	

### VIII. Special Protection Information

Eye Protection Wear chemical safety goggles to prevent eye contact.	Skin Protection Neoprene, nitrile or butyl rubber gloves to prevent skin contact.
Respiratory Protection (Specific Type) For sprays applications or large jobs, an approved full facepiece particulate respirator or SCBA may be required.	Ventilation Recommended If exposure limits are excessive, local exhaust may be required.
Other Protection Impervious apron, boots, safety shower and eye wash as needed.	

### IX. Special Precautions

Hygienic Practices in Handling & Storage Store in a tightly closed container. Store in a cool, well ventilated area away from incompatible materials.	
Work Practices Avoid eye and skin contact. Do not breathe vapors or mists. Use only with adequate ventilation.	
Other Precautions Use only with appropriate protective equipment. Wash thoroughly after use. Empty containers contain residues and may be hazardous.	