



MATERIAL SAFETY DATA SHEET

HMIS Ratings	
Health	4
Flammability	0
Reactivity	0
Protection	X

Chemical Product and Company Identification

Manufacturer Information Blue Ribbon Products, Inc.
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Indianapolis, IN 46268

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Date Modified 10/01/04

Product Identity Mag & Aluminum Brightener

Product Use Automotive Reconditioning Product

Composition / Information on Ingredients

Ingredient Name	CAS Number	Wgt.%	PEL-OSHA	Exposure Limits		Carcinogen
				TLV-ACGIH		
PHOSPHORIC ACID	7664-38-2	10-30	1 mg/m3	1 mg/m3		No
ETHANOL, 2-BUTOXY-	111-76-2	1-5	25 ppm	20 ppm		No
HYDROFLUORIC ACID	7664-39-3	0.5-1.5	3 ppm			No
Non-hazardous and other Ingredients below reportable levels	Proprietary	76	N/AP	N/AP		N/AP

Hazards Identification

Potential Health Effects

Skin Causes severe necrosis to tissue (like hydrofluoric acid). Calcium and magnesium ions found in tissue will be captured.

Eyes This product causes eye burns.

Inhalation This product is severely irritating to the respiratory system. This product may be fatal if it is inhaled.

Ingestion This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazard Statements

CORROSIVE
DANGER – POISON

First Aid Measures

First Aid

Skin	For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.
Eyes	In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Get medical attention or advice.
Inhalation	If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. Seek medical attention.
Ingestion	If material is ingested, immediately contact a physician or poison control center. Give several glasses of water. Do not induce vomiting.

Fire Fighting Measures

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire.

Extinguishing Media

Use methods for the surrounding fire.

General Fire Hazards

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a slight fire hazard.

Fire fighting Equipment/Instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Flash Point N/AP

Flammability Limits in Air, Lower, % by Volume N/AP

Flammability Limits in Air, Upper, % by Volume N/AP

Accidental Release Measures

Containment Procedures

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Clean-Up Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal.

Handling and Storage

Handling Procedures

Avoid contact with skin and eyes. Wash thoroughly after handling. Do not breathe fumes or dust from this material.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place.

Exposure Controls / Personal Protection

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protective Equipment

Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Skin

Use impervious gloves. Use of impervious apron and boots are recommended.

Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

General

Use good industrial hygiene practices in handling this material, including changing and laundering work clothes after use. Discard contaminated shoes and leather goods. Eye wash fountain and emergency showers are required.

Physical & Chemical Properties

Boiling Point	212 F
Specific Gravity	1.18
Vapor Pressure	< 20 mm/Hg
Evaporation Rate	Slower than Ether
Vapor Density	> 1
Solubility (H₂O)	Soluble
pH	< 1
Freezing Point	32 F

Chemical Stability & Reactivity Information

Chemical Stability

Stable under normal conditions.

Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

Hazardous Polymerization

Will not occur.

Incompatibility

This product may react with oxidizing agents. This product may react with reducing agents. This product may react with strong alkalis.

Toxicological Information

Toxicological Information

No data available for this product.

Ecological Information

Ecological Information

No data available for this product.

Disposal Considerations

Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Transportation Information

US DOT HMR Information

Proper Shipping Name	Corrosive liquids, toxic, N.O.S. (Hydrofluoric Acid, Phosphoric Acid)
Identification Number	UN2922
Packaging Group	II
Hazard Class	8

Regulatory Information

US Federal Regulations

CERCLA/SARA – Section 313 – Emission Reporting

ETHANOL, 2-BUTOXY-
HYDROFLUORIC ACID

Other Information

Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, MSDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

Prepared By Technical Department

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