

LP-35 ALUMINUM BRIGHTENER

Product Description

LP-35 Aluminum Brightener is a concentrated acidic liquid aluminum and stainless steel cleaner and brightener. **LP-35 Aluminum Brightener** is biodegradable, and removes most difficult soils, mineral deposits and scale at economical dilution ratios. Do **NOT** use on or near glass, anodized aluminum or galvanized metals. This is a hydrofluoric acid based product for use on previously etched and corroded aluminum truck bodies.

Directions For Use

Wear protective clothing at all times when working with this product. **MIX, WASH AND RINSE WITH COLD WATER. NEVER MIX WITH OTHER CHEMICAL OR CLEANERS.** Consider wind drift, and protect people, cars, trucks animals and pedestrians that may be downwind and affected by chemical spray.

Dilutions: In warm weather, dilute with up to 14 parts water. In cold weather, dilute with up to 8 parts water. Apply uniformly with low pressure, washing from bottom to top. Let sit for 2 to 3 minutes and rinse thoroughly. Depending on severity of soil, a second application may be necessary. Use only plastic pails and utensils. Do not use on anodized or highly polished aluminum or glass.

Cautions

DANGER: KEEP OUT OF REACH OF CHILDREN. Corrosive. Contains Hydrofluoric acid. Causes severe burns that may not be readily apparent to any exposed area. Treat any exposures. Harmful or fatal if swallowed.

EMERGENCY FIRST AID: EYES: Rinse for 15 minutes with potable water. Apply ice compresses and SEEK IMMEDIATE EMERGENCY MEDICAL ATTENTION by an eye specialist. It may be necessary to take victim to a hospital emergency room. **INGESTION:** DO NOT INDUCE VOMITING. Drink a large quantity of water, followed by either milk or a minimum of 2 teaspoons of Milk of Magnesia. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

SKIN: Rinse thoroughly from hands, face and clothing. Flush skin with fresh water for at least 15 minutes. Treat skin with iced aqueous solution of Benzalkonium Chloride 0.13%. Get immediate hospital emergency treatment. medical attention.

INHALATION: Remove victim to source of fresh air, seek immediate medical attention. Inhalation of significant amounts of this products can cause damage lungs, resulting in edema.

Specifications

<i>Odor</i>	Sharp irritating odor.
<i>Appearance</i>	Transparent liquid
<i>pH</i>	Less than 1.0
<i>Specific Gravity</i>	(H ² O=1) 1.06 ± 0.005
<i>Foaming</i>	Copious
<i>Flash Point</i>	None
<i>Solubility in Water</i>	Complete

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MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

SECTION 1: PRODUCT IDENTIFICATION

Distributor: Progressive Systems Inc.	Emergency Phone Number: Chem-Tel 1-800-255-3924 anytime.
Address: P.O. Box 35 - 25 Hickory Street Frankford, Delaware 19945	
Trade Name: LP-35 Aluminum Brightener	Product Type: Acidic Liquid Cleaning Compound

SECTION 2: HAZARDOUS INGREDIENTS

CHEMICAL NAME / COMMON NAME	C.A.S. NUMBER	PERCENT (OPTIONAL)	TLV
Water	7732-18-5	To qs	None Established
Hydrofluoric acid	7664-39-3	<8.0	3 ppm, 6 ppm STEL
Phosphoric acid	7664-38-2	<4.0	1 mg/m ³ TLV, 3 mg/m ³ STEL
2-Butoxy Ethanol	111-76-2	Prop.	20 ppm TLV, 25 ppm PEL
Nonylphenoxypolyethyleneoxyethanol	9016-45-9	Prop.	None Established

SARA HAZARD TITLE III, SECTION 323: Contains the starred (*) ingredients at the indicated percentages.
Other ingredients in this product are: ☒ Less than 1.0 % by weight or 0.1% for carcinogens ☒ Not Hazardous ☒ Declared to be Trade Secret

SECTION 3: PHYSICAL DATA

Boiling Point (° F): Near 212	Specific Gravity (H2O = 1): 1.060 ± 0.005	pH: <1.0
Vapor Pressure (mm Hg): Not determined		Vapor Density (air = 1): Not determined
Solubility in water:	<input checked="" type="checkbox"/> Complete	<input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)
Evaporation Rate (vs. Water):	<input type="checkbox"/> Faster <input checked="" type="checkbox"/> Slower <input type="checkbox"/> About the same	
Appearance and Odor: Transparent Liquid. Sharp irritating odor.		

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.) ° F: None	Flammable Limits: Upper - Not Established Lower - Not Established
Extinguishing Media: As appropriate for surrounding fire. CO ² , Dry Chemical Foam, Water Spray. Water spray to cool drums and prevent rupture.	
Special Firefighting Procedures: Firefighters working around this product should wear SCBA with plastic hood window and other protective gear	
Unusual Fire or Explosion Hazards: None known.	

SECTION 5: STABILITY AND REACTIVITY DATA

Stability: Product is stable.	Polymerization: Will not occur
Hazardous Decomposition Products: Hydrogen gas and fluorides	Incompatibility: Ferrous metals, aluminum, and other acid sensitive materials.

SECTION 6: HEALTH HAZARDS

Primary Routes of Exposure: <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Other	Carcinogens: Not Listed by IARC, NTP, OSHA
Health Hazards (Acute): Inhalation: Inhalation of significant amounts of this product can cause burns and serious damage to lungs resulting in edema. Ingestion: This material can cause burns and serious damage to the throat, esophagus and stomach. Eyes: Can cause serious burns and/or blindness. Skin: This product can cause burns that are not immediately painful. This product will also damage underlying tissues such as nerves or bone.	
Signs and symptoms of overexposure (Chronic): None known Medical Conditions Aggravated by Overexposure: None known	

SECTION 7: EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove exposed person to fresh air. If this product is inhaled, get immediate medical attention. **Ingestion:** DO NOT INDUCE VOMITING. Drink a large quantity of water, followed by either milk or a minimum of 2 teaspoons of milk of magnesia. Never give anything by mouth to an unconscious person. Get immediate medical attention. **Eyes:** Flush immediately with water for at least 15 minutes. Apply ice compresses and GET IMMEDIATE MEDICAL ATTENTION by an eye specialist. It may be necessary to take victim to a hospital emergency room. **Skin:** Remove completely from hands, face and clothing. Flush immediately with water for at least 15 minutes. Treat skin with an iced aqueous solution of Benzalkonium chloride 0.13%. This can be purchased from most drug stores as "Zephiran" concentrate (Winthrop). To make solution, dilute "Zephiran" concentrate 1 ounce to 1 gallon of water. Get immediate hospital emergency treatment. Do not apply this solution to eyes. Note to Physician: Calcium Gluconate gel (2.5%) may also be used for skin exposure.

SECTION 8: SPECIAL PROTECTION INFORMATION

Respiratory Protection: If needed, use OSHA approved respirator for acid gas. Protective Clothing: Goggles/Face Shield, nitrile, vinyl or neoprene gloves, apron and boots.
Ventilation Requirements: <input checked="" type="checkbox"/> Local Exhaust <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Room Ventilation is adequate.

SECTION 9: SPILL OR LEAK PROCEDURES

SPILLS: Dike to prevent spillage into streams or sewer systems. Consult local, state and federal authorities. **Waste Disposal Method:** Dispose of in accordance with Federal, State and Local ordinances.

SECTION 10: STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage: Do not store in metal or glass containers. Store at ambient temperatures. Keep from freezing. Product mist will etch glass. Use with adequate ventilation. DO NOT TRANSFER TO UNMARKED CONTAINERS. KEEP OUR OF REACH OF CHILDREN. Wash thoroughly after handling. Avoid breathing mists or vapors. Keep container closed. Store in a cool, dry place away from strong oxidizers or alkalis.

The health hazards given on the Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure to the product under normal condition of use.

NFPA Ratings: Health - 3 Flammability - 0 Reactivity - 0
Date Prepared: 3/27/2013 Supersedes: 5/6/2008 Code: LP-35 Aluminum Brightener