

MATERIAL SAFETY DATA SHEET

DATE PREPARED: REVISED October 3, 2007 / Page 1

IDENTITY (AS USED ON LABEL AND LIST): SP-32 POLISHED ALUMINUM BRIGHTENER

SECTION I

MANUFACTURED FOR: SEATTLE PUMP AND EQUIPMENT CO.

ADDRESS: 2222 - 15th AVENUE WEST, SEATTLE WA 98119

EMERGENCY TELEPHONE NUMBERS: Emergency: 800-535-5053 Information: 206-283-5252

HMIS CODES: REACTIVITY: 2 FLAMMABILITY: 0 HEALTH: 4

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS CHEMICAL NAME: CAS # WISHA PEL ACGIH TLV OTHER LIMITS

PHOSPHORIC ACID 7664-38-2 32 1 ppm N/A

Comments: USDOT Shipping Information: **Corrosive Liquid, Acidic, Inorganic**, n.o.s. (Contains Phosphoric Acid), 8, UN3264, PG III.

NO OTHER INGREDIENTS CONSIDERED HAZARDOUS

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 212°F SOLUBILITY IN WATER: Complete

VAPOR PRESSURE (MM HG): N/A MELTING POINT: N/A

VAPOR DENSITY (AIR=1): >1 SPECIFIC GRAVITY (WATER=1): 1.1

pH CONCENTRATE: N/A BUTYL (ACETATE=1): N/A

EVAPORATION RATE (BUTYL ACETATE=1): N/A

APPEARANCE AND ODOR: Clear to White / Sour, Acidic

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD USED: N/A FLAMMABLE LIMITS: N/A LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Foam, CO2, Halon — DO NOT USE WATER

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing & NIOSH approved breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid getting water in containers; water can generate heat and splat-tering; corrosive fumes are heavier than air.

SECTION V - REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: May Occur: Will Not Occur: X

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid strong alkalis, sulfides, and soft metals. Will etch glass.

CONDITIONS TO AVOID INSTABILITY: N/A

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Reaction with organic materials and soft metals may release explosive hydrogen gas.

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SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES EYES: YES

HEALTH HAZARD (ACUTE AND CHRONIC): **INHALATION: TOXIC;** Inhalation of vapors, dusts or substance may cause severe injury, burns or death. Inhalation produces damaging effects to mucous membranes and upper respiratory tract. May cause lung edema. Seek immediate medical attention. **SKIN:** Corrosive. Remove from contamination. Wash affected area with water. Symptoms of pain, and severe burn can occur. Seek immediate medical attention. **INGESTION:** Corrosive if swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Seek immediate medical attention. **EYES:** Corrosive. Contact can cause blurred vision, redness, severe tissue damage and blindness. Irrigate eyes with water for at least 15 minutes. Seek immediate medical attention.

CARCINOGENICITY: N/A NTP: N/A IARC MONOGRAPHS: N/A OSHA/WISHA Regulated: N/A

SIGNS AND SYMPTOMS OF EXPOSURE: Corrosive. Redness, Severe Pain, Severe Burns, Loss of Breath, Unconsciousness, Death.**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Asthma or respiratory ailments need extra respiratory protection.

EMERGENCY AND FIRST AID PROCEDURE: **INHALATION:** Move victim to fresh air. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. **SKIN:** Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Seek immediate medical attention. **INGESTION:** If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water or milk. Seek immediate medical attention. **EYES:** Flush with water for at least 20 minutes, while holding the upper and lower eyelids open. Seek immediate medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Provide adequate ventilation, remove all ignition sources. Wear appropriate protective clothing. DO NOT FLUSH TO SEWERS OR WATERWAYS. Apply Magnesium Sulfate (dry) to the spill area. Follow with an inert absorbent and add soda ash or Magnesium Oxide and Slaked Lime. Collect in appropriate containers and save for disposal.**WASTE DISPOSAL METHOD:** In accordance with all Federal, State, and Local health environmental regulations.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep tightly closed in polyethylene containers. Store in a cool dry place with adequate ventilation, separated from other chemicals. Store away from all alkali materials and soft metals. DO NOT REUSE EMPTY CONTAINERS.**OTHER PRECAUTIONS:** KEEP THIS AND ALL CHEMICALS AWAY FROM CHILDREN

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH approved full face protector with acid gas cartridge.**VENTILATION:** Local and/or general exhaust is recommended.**LOCAL EXHAUST:** Yes**MECHANICAL:** Yes, preferred.**SPECIAL:** N/A**PROTECTIVE GLOVES:** Wear protective clothing including boots made of polyvinyl chloride (PVC) or neoprene. All clothing needs to be long sleeve and/or have gauntlets of PVC or neoprene.**EYE PROTECTION:** Use chemical goggles or full face shield.**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Impervious protective clothing is recommended. Safety shower and eyewash should be available.**WORK / HYGIENIC PRACTICES:** Wash thoroughly after handling. Do not get into eyes, on skin, on clothing. Do not take internally.

Product Bulletin

SP-32 ... POLISHED ALUMINUM BRIGHTENER ... CAR WASH PANEL CLEANER

DESCRIPTION:

A COMBINATION OF ACIDS AND WETTING AGENTS TO CLEAN AND BRIGHTEN ALUMINUM. FOR USE ON TRAILERS, TANK TRUCKS, AND OTHER ALUMINUM SURFACES. ALSO FORMULATED FOR CLEANING PLASTIC, TILE, AND FIBERGLASS PANELS.

NOTE: EXCELLENT CLEANER TO REMOVE WATER SPOTS OFF VEHICLE FINISHES AND WINDOWS WHEN DILUTED. WILL NOT ETCH GLASS. FOR INDUSTRIAL USE ONLY.

DIRECTIONS:

Before opening, relieve any pressure build-up in bottle by loosening cap slowly.

RECOMMENDED USE: 1 to 2 ounces per gallon of water for washing exteriors or aluminum truck bodies, trailers, and railroad cars using high pressure spray equipment. Follow immediately with water rinse.

RECOMMENDED USE FOR CAR WASHES: Mix 1 part acid to 3-5 parts water. Freely apply to the surface being cleaned. Using an ordinary long handled brush or spray applicator. Agitate well and allow to stay on surface 5 to 15 minutes, then rinse well with clean water. If desired results are not obtained, the time of contact may be increased or the strength of the solution raised. **Do not allow the solution to dry on the surface.** If this happens, it will be necessary to re-apply and rinse.

TECHNICAL DATA:

pH CONCENTRATE.....	2.0
VISCOSITY.....	THIN LIQUID
COLOR.....	LIGHT AMBER
PERCENT SOLIDS.....	25%
ODOR.....	SLIGHT
SOLUBILITY.....	COMPLETELY IN WATER
STABILITY.....	STABLE

FOR FURTHER INFORMATION REFER TO THE MATERIAL SAFETY DATA SHEET

MANUFACTURED FOR:

SEATTLE PUMP AND EQUIPMENT CO.

2222 - 15th Avenue West

Seattle, WA 98119

Phone: 206-283-5252 Toll Free: 800-863-7867