

Material Safety Data Sheet

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Section 1 Product Identification

Product Name: **Alumashine Acid Wash**

Formula type: acidic liquid detergent

Supplied By:

NOCO Lubricants
2440 Sheridan Drive
Tonawanda, NY 14150

Emergency: 800-424-9300

Information: 800-500-6626

Fax: 800-891-6626

Section 2 Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS#</u>	<u>%</u>	<u>Threshold Limit Value (TLV)</u>	<u>Permissible Exposure Limit (PEL)</u>
Hydrofluoric Acid	7664-39-3	<15	3 ppm	3 ppm
Sulfuric Acid	7664-93-9	<20	1 mg/m ³ (TWA) OSH & ACGIH)	
Proprietary Detergents	NA	<5	NE	NE
Glycol Ether EB	111-76-2	<2	25 ppm skin	25 ppm skin

Section 3 Physical Data

Form: Liquid

Color: Clear

Odor: Slight – solvent/acid

Specific Gravity (Water = 1): 1.12 – 1.14

Boiling Point °F: >212

Evaporation Rate (Water = 1): NDA

pH as is: 0.5 – 1.5

pH (1% vol): 1.5 – 2.5

Solubility in Water: Complete

Vapor Density (Air = 1): >1.0

% VOC: <2

Vapor pressure: 25 mm Hg @ 68° F

Section 4 Fire and Explosion Information

Flash Point (Method) F: Will not burn

Unusual Fire and Explosion Hazards: Treat as an acidic material. See section IV. Not considered to be a fire hazard. Heat from a fire may produce poisonous or irritating gases. Contact with metal can produce flammable hydrogen gas. Violent exothermic reaction can occur with water.

Extinguishing Agents: Keep upwind of fire. Use media proper for the main source of the fire. Water on this product can cause heat and spattering or violent reaction.

Fire fighting methods: General guidelines as this material won't burn without driving off water. Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible. Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of storage tank due to fire. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus with full-face mask and full protective equipment.

Section 5 Health Hazard Data – Signs and Symptoms of Overexposure:

Probable Routes of Entry: Eyes, skin or inhalation

Eyes: Corrosive to eyes. Causes chemical burns. Permanent eye damage or blindness may result.

Skin: Corrosive to skin. Causes chemical burns if not properly treated immediately. Effects may be delayed. Fluoride penetrates the skin causing destruction of deep tissue or bone. Can be fatal.

Inhalation: Mist or vapors cause severe irritation or burns including coughing, sore throat or difficult breathing. Effects may be delayed. Can cause fluoride poisoning. Later effects include central nervous system effects, cardiovascular effects and death.

Ingestion: Poison. Can cause corrosive damage to mouth, throat, or stomach. Harmful or fatal. Causes fluoride poisoning. Later effects include central nervous system effects, cardiovascular effects and death.

Medical Conditions Aggravated by Exposure: Asthma and pre-existing skin disorders or abrasions.

Chronic Exposure: Can result in fluorosis, bone and joint damage, hypocalcemia and hypomagnesemia.

Section 6 First Aid Procedures

Alert medical personnel that this is an emergency – can cause fluorine poisoning.

Eyes: Immediately flush eyes with cool running water for at least 30 minutes. Obtain immediate medical attention – preferably an eye specialist. Alert medical personnel that this is an emergency.

Skin: Immediately flush skin with cool water for 20 minutes. Remove contaminated clothing while flushing with water. Obtain immediate medical aid. Treat for fluorine exposure. Alert medical personnel that this is an emergency.

Inhalation: Remove to fresh air. Monitor breathing. Administer CPR if needed. Obtain immediate medical aid. Treat for fluorine exposure. Alert medical personnel that this is an emergency.

Ingestion: If conscious, drink two glasses of water. Do not induce vomiting. Seek immediate medical aid. Treat for fluorine exposure. If unconscious, do not give anything to drink, do not induce vomiting, and obtain immediate medical aid. Treat for fluorine exposure. Alert medical personnel that this is an emergency. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Gastric lavage should be performed only by qualified medical personnel. Keep affected person warm and at rest. Seek immediate medical attention or call 911.

Section 7 Reactivity Data

Incompatibility: Reacts with metals, alkaline products, oxidizers, nitrates, and chlorinated products (such as sanitizers). Do not mix with anything except water.

Hazardous Decomposition Products: Upon contact with metal, may release hydrogen gas. Upon contact with alkaline products, may emit explosive heat. Upon contact with chlorinated products, chlorine vapors can be released. Sulfur dioxide or fluoride fumes at extremely high temperature.

Hazardous Polymerization: Will not occur.

Stability: Stable at room temperature (68F) when stored and used under proper conditions.

Section 8 Spill & Leak Information

Procedures for Cleanup: Wear safety equipment. Evacuate personnel. Product is hazardous. For small spills, flush and dilute with plenty of water. For large spills, dike product with sand or dirt. Keep out of surface waters and storm sewers. Call emergency response personnel or hazardous clean up company. Place into suitable plastic containers for disposal. After clean up, wash spill site with soda ash solution. Reportable quantity is 85 gallons. Waste is RCRA hazardous.

Waste Disposal: Dispose of in accordance with federal, state & local regulations. Waste is classed a RCRA corrosive. Reportable quantity is 85 gallons. Dispose with authorized disposal company.

Section 9 Personal Protection Information

Ventilation Type Required: General and local

Eye Protection: Wear goggles and face shield.

Protective Gloves: Rubber, neoprene or nitrile.

Respiratory Protection: Wear full face respirator with an HF acid gas cartridge.

Other Equipment: Rubber boots and impervious full suit protective clothing to prevent skin contact.
Water source for eye and skin wash.

Section 10 Special Precautions

Personnel must wear full protective gear when handling product. Store between 30°F and 100°F. Store out of direct sunlight. Keep out of reach of children. Keep container closed when not in use. For industrial and institutional use only. Mix only with water. Thoroughly rinse empty containers before disposal. Use only in well ventilated area. Do not breathe vapors. Wash hands thoroughly after handling.

Section 11 Toxicity Data

Hydrofluoric Acid Carcinogenicity: NTP: No IARC: No OSHA: No
 Sulfuric Acid mists Carcinogenicity: NTP: Yes IARC: No OSHA: No
 This product is absorbed through the skin. Personal contact can cause fluoride poisoning and death.

Section 12 HMIS Hazard Rating

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
 Health: 3 Reactivity: 1 Fire: 0

Special: personal protection rating to be supplied by user depending upon use conditions – Full suit impervious protective gear, goggles, face shield, gloves, and respirator.

Section 13 Regulatory

Subject to TSCA inventory status. Reportable quantity: 85 gallons. Subject to SARA 302, 311 and 312. Subject to CERCLA and RCRA.

Section 14 Shipping Name

DOT Classification: Corrosive liquid, toxic, n.o.s. (hydrofluoric acid and sulfuric acid), 8, 6.1, UN2922, PGII

Section 15 Documentary Information

Date issued: 3-8-2005 Supercedes: Reason for update:

ABBREVIATIONS: NA = NOT APPLICABLE NDA = NO DATA AVAILABLE
 > = GREATER THAN <=LESS THAN ND= NOT DETERMINED

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