

Material Safety Data Sheet

Product: Hartland Alumashine

Phone: 800-658-9051

Date of Preparation: 9/7/2012

Section 1 – Chemical Product and Company Identification

Synonyms: Not applicable - mixture
Form: Liquid
CAS No: Not applicable - mixture
Distributor: Hartland Lubricants & Chemicals, 914 Commercial Court, Onalaska, WI 54650

Section 2 – Composition / Information on Ingredients

Ingredient	CAS No	%	Exposure limits
Hydrofluoric Acid	7664-39-3	<20	3 ppm
Sulfuric Acid	7664-93-9	<20	1 mg/m ³
Balance of ingredients are not hazardous as defined by OSHA			

Section 3 – Hazard Identification

Emergency Overview 24 Hour Professional Emergency Resource Services (PERS) 800-633-0667

Primary routes of entry: skin contact or eye contact.

Acute exposure: irritant

HMIS Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Health = 4 Reactivity = 0 Fire = 1 Personal protection: gloves and glasses

Possible Health Effects

Inhalation: Short-term exposure causes nose, throat & respiratory irritation which may be delayed for several hours. Long-term exposure causes nose and throat burns, lung inflammation, pulmonary edema and fatal hypocalcaemia.

Ingestion: MAY BE HARMFUL OR FATAL IF SWALLOWED. Severe burns, destruction of tissue. Small amounts or dilute solutions fatal hypocalcaemia and systemic toxicity is likely to occur unless medical treatment is immediately obtained.

Skin Contact: DANGER Corrosive-Severe irritation, deep ulcerations that may not be immediately painful or evident. Hydrofluoric acid will penetrate the skin and attack underlying tissues and bone. Large burns may also cause hypocalcaemia and other toxic effects which may be fatal.

Eye Contact: DANGER Corrosive-Severe irritation, burns, destruction of tissue, blindness.

Chronic Exposure: No data available

Aggravation of Pre-existing Conditions: No information found

Section 4 – First Aid Measures

Inhalation: Remove person to fresh air. Administer artificial respiration if indicated. If breathing is difficult, give oxygen. Keep person warm and quiet. Obtain medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water followed with several glasses of milk or several ounces of milk of magnesia. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Skin Contact: Flush with plenty of cool water for at least 15 minutes while removing contaminated clothing and shoes. Pay close attention to area under nails. Obtain medical attention immediately! Follow by immersing affected skin in an ice cold solution of magnesium sulfate (Epsom Salt) or using a calcium gluconate gel.

Eye Contact: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain immediate medical attention.

Section 5 – Fire Fighting Measures

Fire:	Not flammable.
Fire Extinguishing Media:	Water spray, foam, carbon dioxide, dry chemical.
Special Information:	Firefighters must be equipped with full protective gear, including self-contained breathing apparatus. Cool fire exposed containers with water spray. Run-off from fire control may cause pollution. Neutralize run-off with lime, soda ash, etc.

Section 6 – Accidental Release Measures

Spills:	Ventilate area. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal. Waste Disposal: Contact the proper county, state or federal authorities.
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Section 7 – Handling and Storage

Keep out of reach of children. Keep container closed when not in use. Empty containers may contain product residues – observe all warnings and precautions. Keep from freezing. Store away from sources of heat and incompatibilities.

Section 8 – Exposure controls / Personal Protection

Airborne Exposure Limits:	See section 2
Ventilation System:	Local and general exhaust is recommended to keep exposure (mists) below limits.
Personal Respirators:	Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.
Skin Protection:	Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.
Eye Protection:	Chemical goggles and/or face shield.

Section 9 – Physical and Chemical Properties

Appearance: Blue liquid	Boiling Point: Approximately 100°C
Odor: Penetrating odor	Melting Point: Not applicable
Solubility: Complete	Vapor Density (Air = 1) Greater than 1
Specific Gravity: 1.26	Vapor Pressure (mm Hg) No information found. (similar to water)
pH: <1.0	Evaporation Rate (BuAc=1) Slower than 1

Section 10 – Stability and Reactivity

Stability:	Stable at room temperature.
Hazardous Decomposition Products:	Thermal decomposition can produce a wide variety of toxic gases and vapors.
Hazardous Polymerizations:	Will not occur.
Incompatibilities:	Alkaline materials, metal salts, oxidizing materials and organic materials.

Conditions to Avoid: Do not mix with chlorine bleach, ammonia or any other cleaning chemical.

Section 11 – Toxicological Information

-----NTP Carcinogen-----

Ingredient	Known	Anticipated	IARC Category
Sulfuric Acid	No	No	None
Hydrofluoric Acid	No	No	None

Section 12 – Ecological Information

Ecological Fate: If the pH is > 6.5, soil can bind fluorides tightly. High calcium content will immobilize fluorides, which can be damaging to plants when present in acid soils.

Ecological Toxicity: This material is expected to be slightly toxic to aquatic life. 60 ppm*/Fish/Lethal/Fresh Water *=time period not specified. > 300ppm/48hr./Shrimp/LC50/Aerated Saltwater

Section 13 – Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 – Transport Information

Domestic (Land, D.O.T.)

Proper shipping Name: Compounds, cleaning liquid (hydrofluoric acid, sulfuric acid)
Hazard Class: **DOT CLASS: 8 DOT ID NUMBER: NA1760 DOT PACKING GROUP: I**
 The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

Section 15 – Regulatory Information

• Chemical Inventory Status - part 1 •

Ingredient	TSCA	EC	Japan	Australia
Sulfuric Acid	Yes	Yes	Yes	Yes
Hydrofluoric Acid	Yes	Yes	Yes	Yes

• Chemical Inventory Status – part 2 •

Ingredient	-----Canada-----			Philippines
	Korea	DSL	NDSL	
Sulfuric Acid	Yes	Yes	No	Yes
Hydrofluoric Acid	Yes	Yes	No	Yes

• Federal, State & International Regulations – part 1 •

Ingredient	--- SARA 302 ---		---- SARA 313 ----	
	RQ	TPQ	List	Chemical Catg.
Sulfuric Acid	1000	1000	Yes	No
Hydrofluoric Acid	100	100	No	No

• Federal, State & International Regulations – part 2 •

Ingredient	CERCLA	RCRA 261.33	TSCA 8(d)
Sulfuric Acid			
Hydrofluoric Acid			

Sulfuric Acid	1000	No	No
Hydrofluoric Acid	100	U134	No

Chemical Weapons Convention: Yes **TSCA 12(b):** No **CDTA:** No
SARA 311/312: **Acute:** Yes **Chronic:** Yes **Fire:** No **Pressure:** No
 Reactivity: Yes
 Australian Hazchem Code: 2R
 Poison Schedule: S7

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains information required by the CPR.

Section 16 – Other Information

Revision Notes:

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the customer. No suggestions are intended as, and should not be construed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.