

SAFETY DATA SHEET

Aluminum Truck Wash

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Product Identifier: Aluminum cleaner

Supplier Details: Ambion Corp
37 Naugatuck Dr
Naugatuck, CT 06770
Tel: 203-723-1437
Fax: 203-723-0101

Emergency Contact P-ChEM: 1-800-424-5571

2. HAZARDS IDENTIFICATION

Danger!!

OSHA Hazards: Corrosive



Hazard Statement(s)

H300+310 Fatal if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H330 Fatal if inhaled

Precautionary Statement(s)

P202 Do not handle until all safety precautions have been read and understood
P233 Keep container tightly closed
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P262 Do not get in eyes, on skin or on clothing
P264 Wash...thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection

P301+315 +331 IF SWALLOWED: Get immediate medical advice/attention. Do NOT induce vomiting.
P303+352 IF ON SKIN: Wash with plenty of water.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P306+360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313 If skin irritation occurs: Get medical advice/attention.
P337+313 If eye irritation persists: Get medical advice/attention.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS #	EINECS#	WT%
Sulfuric Acid	7664-93-9	231-639-5	10
Hydrofluoric Acid	7664-39-3	231-634-8	11

4. FIRST AID MEASURES

In all cases, immediately call a POISON CENTER or doctor/physician.

Ingestion (Swallowing): DO NOT INDUCE VOMITTING. Give 1 to 2 glasses of water, lime water, milk of magnesia or milk. Get immediate medical attention. Stomach lavage may be necessary.

Inhalation (Breathing): Remove to fresh air. Call a physician immediately. If not breathing, give mouth to mouth resuscitation. If breathing is difficult, give oxygen. Victim should be held for 24 hour observation.

Skin Contact: Wash off in copious amounts of flowing water or shower. Remove all contaminated clothing. Keep washing with large amounts of water for a minimum of 20 minutes. Have someone make arrangements for medical attention while flushing. Get medical treatment for all burns regardless of how minor they may seem initially. Burns become extremely painful several hours after initial contact.

Eye Contact: Wash eyes with plenty of water, making sure to wash under eyelids for 15 minutes. Get immediate medical attention, preferably an eye specialist.

5. FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Water fog, water, Dry chemical or Carbon Dioxide.

Special Protective Equipment & Precautions for Fire Fighters:

Fire fighters should wear NIOSH/MSHA approved self contained breathing apparatus and full protective clothing for possible exposure to acid fumes.

Unusual Fire and Explosion Hazards: Confine. Avoid flushing corrosive solution to sewers or streams. This product contains nitric acid which may increase the flammability of other materials such as wood and solvents.

NFPA	Health	Flammability	Instability	Physical Hazards
	4	0	0	N/A

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Take steps to prevent eye or skin contact or inhalation.

Environmental precautions:

Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

To clean up spill, scrape up or use absorbent material. Wash contaminated area with alkaline cleaner and water. All clean up and disposal should be carried out in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Wear chemical goggles, face shield, rubber gloves and full protective clothing including boots. Do not wear contact lenses. Product is highly corrosive to non-acid resistant fabrics, e.g., nylon, wool, leather, etc. Avoid breathing mists. Handle only in areas with sufficient ventilation to prevent exposure or wear a suitable NIOSH/MSHA approved respirator. Keep away from food.

Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed. Use on a first-in, first-out basis. Empty containers retain vapor and product residue. Store only in acid resistant containers in open or well ventilated, cool areas. Keep out of direct sunlight. Keep away from oxidizing agents and alkalis. Transfer and handle material with acid-resistant equipment only. Use only non-sparking tools in and around storage areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Material	CAS #	EINECS#	TWA (OSHA)	TLV (ACGIH)
Sulfuric Acid	7664-93-9	231-639-5	1 mg/m ³	0.2 mg/m ³ (T)
Hydrofluoric Acid	7664-39-3	231-634-8	3 ppm	0.5 ppm

Appropriate engineering controls:

General room or local exhaust ventilations is usually required to meet exposure limits.

Individual protection measures, such as personal protective equipment:

Respiratory protection: Use NIOSH approved acid gas respirator or canister respirator within the use limitations of these devices when lacking sufficient local ventilation to control vapors to a safe level. In all other situations use a self-contained breathing apparatus.

Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU). Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Work and Hygienic practices: Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point :	217°F (103°C)
Vapor Pressure (mm. Hg) :	14
Vapor Density (Air=1):	0.6
Solubility in Water:	Miscible
Specific Gravity (Water=1) :	1.10
Melting Point :	N/A
Evaporation Rate (n-BuOH=1) :	0.7
Appearance:	Clear, water white watery liquid
Odor:	Strong acrid odor

10. STABILITY AND REACTIVITY

Stability: Unstable with heat. Produces toxic gases.

Conditions to Avoid: Contact with flame, hot surfaces or extreme heat may product toxic gases (hydrogen fluoride/oxides of nitrogen and sulfur).

Incompatibility (Materials to Avoid): Alkalies, carbides, carbonates, cyanides and sulfides. Common metals react to form hydrogen gas, a fire and explosive hazard. Reacts with glass, concrete and other silicon bearing materials to yield silicon tetrafluoride gas. Pressure buildup from this reaction has been known to explode glass containers. Do not store the material or is solutions in glass or metallic containers.

Hazardous Decomposition or Byproducts: Hydrogen fluoride, toxic oxides of nitrogen and sulfur.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Emergency Overview: DANGER! THIS PRODUCT IS A STRONG OXIDIZER! LIQUID AND VAPOR CAUSE SEVERE BURNS HARMFUL IF INHALED AND MAY CAUSE DELAYED LUNG INJURY. SPILLAGE MAY CAUSE FIRE OR LIBERATE DANGEROUS GAS.

Routes of Exposure:

Eye, skin, inhalation, and ingestion.

Acute Toxicity:

Material	CAS #	EINECS#	
Sulfuric Acid	7664-93-9	231-639-5	Inhalation, Rat: LC50=510 mg/m3/2H Oral Rat: LD50: 2140 mg/kg
Hydrofluoric Acid	7664-39-3	231-634-8	Inhalation, Rat: LC50: 2240-2340 ppm/1H Ingestion, Guinea Pig: LD100: 80 mg/kg

Potential Health Effects:

General: Corrosive effects on the skin, eyes, nose and throat may be delayed, and damage may occur without the sensation or onset of pain. Strict adherence to first air measures following any exposure is essential. Speed is essential. Obtain medical attention immediately. Spillage may cause fire or liberate dangerous gas.

Inhalation: Corrosive to lungs, respiratory tract and mucous membranes. Severe exposure can cause nose and throat burns, lung inflammation and pulmonary edema.

Ingestion: Can cause severe burns to stomach, mouth and esophagus. Can affect kidney function and be fatal if swallowed. Profound and possible fatal hypocalcemia (bodily calcium depletion) is likely to occur unless medical treatment is promptly initiated.

Skin Contact: Corrosive to skin. Both liquid and vapor can cause severe burns which may not be immediately painful or visible. Can penetrate skin and attack underlying tissues and bone.

Eye Contact: Will cause pain. Both liquid and vapor are extremely corrosive to eyes.

Chronic Exposure: Repeated exposures have resulted in gastric, intestinal, circulatory, respiratory skin rashes and nervous system complaints. Can cause delayed lung injury. Continued exposure can deplete calcium levels in the body and result in death. Bone and joint changes in humans can occur. Embryotoxicity has been noted in rats.

Aggravation of Pre-existing Conditions: Persons with pre-existing lung disorders may have increased susceptibility to the toxicity of excessive exposures.

12.ECOLOGICAL INFORMATION

None available

13. DISPOSAL CONSIDERATION

Product should be disposed of by federally approved hazardous waste disposal facility.

14. TRANSPORT INFORMATION

UN number	NA1760
UN proper shipping name	Compound, cleaning liquid containing Hydrofluoric Acid
Transport Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION

Not available

16.OTHER INFORMATION

Date Prepared: June 23, 2015
