

SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Aluminum-Clean ECO
Product Use: Aluminum Cleaner
Product Codes: WH-572
Date of Issue: 10/21/2015
Emergency Telephone Number:
CALL INFOTRAC - DAY OR NIGHT (800) 535-5053 INTL: (352) 323-3500



Manufactured for:
H&P Associates, Inc.
DBA WorkHorse Cleaner Products
P O Box 1086
Fairhope, AL 36533
For other information call (251) 510-3614

2. HAZARDS IDENTIFICATION

GHS - Signal Word: DANGER

GHS - Classification:

Acute toxicity - Oral - Category 4

Skin corrosion - Category 1A

Serious eye damage - Category 1

Aquatic toxicity - Category 3

GHS - Hazard statement(s):

H290 - May be corrosive to metals

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

GHS - Prevention precautionary statement(s):

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P262 - Do not get in eyes, on skin, or on clothing

P264 - Wash thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye and face protection

GHS - Response precautionary statement(s):

P301 + P330 + P331 + P310 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor

P303 + P361 + P353 - IF ON SKIN(or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

GHS - Disposal precautionary statement(s):

P501 - Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal

HMIS® Hazard Ratings: Health - 3, Flammability - 0, Reactivity - 0

GHS HAZARD PICTOGRAM(S):



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% Range
Hydrofluoric Acid	7664-39-3	1 - 10
Sulfuric Acid	7664-93-9	1 - 10
Alcohol Ethoxylate	66455-15-0	1 - 10

4. FIRST AID MEASURES

EYE CONTACT:

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lens after the first 2 minutes.

Get medical attention immediately.

SKIN CONTACT:

Immediately flush with water. Remove all contaminated clothing and continue flushing with water. Wash contaminated areas with soap and water.

Thoroughly clean and dry contaminated clothing before reuse. If irritation persists, seek medical attention.

INHALATION:

Move exposed person to fresh air. If irritation persists, seek medical attention.

INGESTION:

Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Drink several glasses of water. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash Point None, non-flammable.

Flammable Limits Not available

Extinguishing Media Use media appropriate for surrounding fire. Cool fire-exposed containers with water spray.

Fire Fighting Procedures As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear. Extreme heat or contact with metals can release flammable hydrogen gas and other poisonous or irritating gases which may be heavier than air.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE:

Spills are unlikely due to packaging. Small spills can be taken up with an absorbent and placed in a clean dry container for later disposal. Wear appropriate personal protection equipment as specified in Section 8. Do not flush to sewer or waterways. Add soda ash to neutralize area. Flush area with large amounts of water. US regulations(CERCLA) require reporting spills and release to soil, water and air in excessive of reportable quantities

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7. HANDLING & STORAGE

- Handling** Wear protective equipment (See Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing any vapor mists. Keep in the original container. Do not use container for other purposes. Keep bungs/fittings closed tightly when not in use. Keep away from alkalis. Wash thoroughly after handling.
- Storage** Store between the following temperatures 4.44°C to 48.9°C(40°F to 120°F). Store tightly closed containers in a cool, dry area away from incompatible materials (See Section 10) and food and drink. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls** Provide adequate local exhaust ventilation to maintain worker exposure below limits as listed in Section 2. Local exhaust is suggested for use where possible, in enclosed or confined space
- Personal Protection**
- Eyes/Face** Safety Glasses or chemical Goggles. Faceshield to guard against splashing
- Skin/Body** PVC, Rubber or Neoprene gloves and sleeves
- Respiratory** Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.
- General** Wear protective clothing to guard against splashing, including boots and apron made from PVC or neoprene. Maintain eye wash fountain and quick drench safety shower in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State** Liquid
- Color** Clear, Colorless
- Odor** Acrid
- Specific Gravity** 1.03
- Water Solubility** Complete
- pH** <1
- Vapor Pressure** Not available
- Vapor Density** Not available
- Evaporation Rate** Not available
- Boiling Point** Not available
- Volatiles** Not available
- VOC** Not available

10. STABILITY AND REACTIVITY

- Chemical Stability** The product is stable
- Conditions to Avoid** Excessive heat, direct sunlight and incompatibles
- Incompatibility** Metals, glass, strong bases(such as ammonia, soda ash, caustic soda), rubber, leather, concrete, sulfides, sulfites, strong oxidizers
- Hazardous Decomposition** Hydrogen fluoride and sulfuric acid fumes
- Hazardous Polymerization** Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

- Hydrofluoric Acid LC50 Inhalation rat 1276ppm/1H; Investigated as a mutagen, reproductive effector
- Sulfuric Acid LD50 Oral rat 2140mg/kg

12. ECOLOGICAL INFORMATION

- Ecotoxicity (aquatic and terrestrial)** Not Available
- Persistence and Degradability** Not Available
- Bioaccumulative Potential** Not Available
- Mobility in Soil** Not Available
- Other Adverse Effects** Not Available

13. DISPOSAL CONSIDERATIONS

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

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14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name Corrosive liquid, n.o.s. (Hydrofluoric and Sulfuric Acids)
DOT Hazard Class 8(6.1)
DOT I.D. Number UN 2922
DOT Packing Group II
DOT Label(s) Corrosive

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question.

This regulatory data is not intended to be all-inclusive, only selected regulations are represented.

U.S. Federal regulations

CERCLA

Hydrofluoric Acid CAS-No. 7664-39-3, RQ: 1,000 lbs

Sulfuric Acid CAS-No. 7664-93-9, RQ: 1,000 lbs

OSHA Hazard Communication Standard (26 CFR 1910.1200)

(X) Hazardous () Non-Hazardous

SARA TITLE III

Section 302/304 Extremely Hazardous Substances:

Hydrofluoric Acid CAS-No. 7664-39-3

Section 311/312 (40CFR370) Hazardous Categories:

() None (X) Acute (X) Chronic () Fire () Pressure () Reactive

Section 313 Toxic Chemical List:

Hydrofluoric Acid CAS-No. 7664-39-3

TSCA

All ingredients listed in section 3 of this SDS are listed on the TSCA Inventory. Any impurities present are exempt from listing.

U.S. State Regulations

California Prop 65

This product does not contain any chemicals that have been known in the state of California to cause cancer.

All or some ingredients listed in section 3 of this SDS are on the following states Right TO Know listings

Massachusetts, New Jersey, Pennsylvania

International Regulations

All ingredients listed in section 3 of this SDS are on the following inventories or are exempted from listing

Country	Notification	Country	Notification
Australia	AICS	Japan	ENCS/ISHL
Canada	DSL	Korea	ECL
China	IECS	New Zealand	NZIoC
European Union	EINECS	Philippines	PICCS

16. OTHER INFORMATION

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Completed On March 24, 2014
Completed By Chemist: R. Law