



# Safety Data Sheet

## Aluminum and Metal Cleaner/Brightener

Daytime Phone (877) 474-7501

### 1. Identification

**Product Name:** Aluminum and Metal Cleaner/Brightener

**Trade Name:** Acid Cleaner

**Company Name and Synonyms:** Acid Cleaner/Brightener for aluminum for industrial of commercial use only.

**Company Name and Address:** Shield Solutions LLC. W1737 Washington Rd, Oconomowoc, WI 53066

**Daytime Telephone Number (8:00 am – 5:00 pm CST):** (877) 474- 7501

**Email Address:** info@shieldsolutionsllc.com

**Website:** www.shieldsolutionsllc.com

### 2. Hazards Identification

**Threshold Limit Value:** This product contains a proprietary organic acid salt that is considered to be NON-CORROSIVE to skin as defined and tested in accordance with the U.S. OSHA’s Hazard Communications Standard, DOT Hazardous materials regulations, Canada’s WHIMS regulations. Classified as a mild skin irritant per the 1992 OECD Guideline for Testing of Chemicals, Number 404.

#### Signs and Symptoms of Exposure

**Skin:** Considered to be non-corrosive to skin. Prolonged or repeated contact may cause irritation, dryness or dermatitis in sensitive individuals.

**Eyes:** Avoid eye contact. Considered to be corrosive to eyes and may cause chemical burns if prolonged exposure occurs.

**Inhalation:** Vapor or mist may cause irritation to mucous membranes in sensitive individuals.

**Ingestion:** Do not eat or drink this material. Product may cause nausea, weakness, gastrointestinal discomfort and pain if consumed. Ingestion of large quantities may be fatal if not treated

### 3. Composition (as defined by federal requirements for potentially hazardous ingredients over 1.0% by weight)

Hazardous Ingredients	Weight Percent	CAS Number	Recommended Limits
Proprietary organic acid salt	<50.0%	NA	NA

### 4. First-Aid Measures

**Skin Contact:** Rinse affected area with fresh water. Wash soaked or heavily contaminated clothing before reuse. After flushing skin, use skin lotion to restore moisture to the skin and relieve possible dryness or redness.

**Eyes:** Flush eyes thoroughly with plenty of fresh, cool water for 20 minutes. Hold lids open while flushing. Contact lenses should not be worn when using chemicals. If worn, remove from eyes quickly during rinse process. Call a physician promptly.

**Inhalation:** Remove affected person to fresh air. If prolonged shortness of breath or dizziness persists, call a physician promptly.

**Ingestion:** Drink a quart of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

**Note to physician:** Treatment of overexposure should be directed at the control of symptoms and the patient’s clinical condition.

### 5. Fire Fighting Measures

**NFPA hazard rating:** Health: **2** (corrosive to eyes) Flammability: **0** Reactivity: **1**

**Flashpoint:** Non-flammable

**Flammable Limit:** LEL – None Established. UEL – None Established.

**Auto-ignition temperature:** Not applicable for concentrate, but acid reaction with certain metals can emit explosive hydrogen gas.

**Extinguishing Media:** For fires use appropriate media such as water spray, dry chemical, or carbon dioxide foam.

**Unusual Explosion Hazards:** Extreme heat may cause pressure to build up inside container. This product should be used at recommended temperatures not to exceed 140°F. Acid action on soft metals at high temperatures may release explosive hydrogen gas. DO NOT SMOKE, HAVE OPEN FLAME OR OTHER IGNITION SOURCES IN CLOSE PROXIMITY IF THIS PRODUCT HAS PROLONGED CONTACT ON SOFT METAL SURFACES!

**Required special protective equipment for firefighters:** In case of fire, evacuate area of all unprotected personnel. Wear proper safety equipment, including full protective clothing and self-contained breathing apparatus with full facepiece operated in a pressure demand or other positive pressure mode. Emits toxic fumes when burned, so prevent eye, skin and lung contact. Cool heat exposed containers with water

### 6. Accidental Release Measures

**Steps to be taken in case material is spilled or released:** Observe all federal, state, and local regulations. Do not discharge large amounts of concentrated and un-neutralized product directly into public sewers or waterways. In case of a spill, neutralize with dilute solution of sodium bicarbonate until a neutral pH is obtained and dispose according to federal, state, and local regulations.

### 7. Handling And Storage

**Handling and storage:** Keep from freezing. Do not store in metal containers, use plastic containers only. Keep containers tightly closed until used. Do not mix with other chemicals. Store in cool and dry area. Optimal storage temperature 50 - 80°F. Keep out of direct sunlight. Do not store near open flames of other extreme heat sources. Make sure containers are labeled properly. Read and understand the SDS before using any chemical products.



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### 8. Exposure Control

**Personal protection equipment** Consult your safety equipment supplier for proper equipment use and care guidelines.

**Respiratory Protection:** Use product in a ventilated area. Respiratory protection is not normally required. A NIOSH approved dust/mist respirator may be used by lung sensitive individuals if needed

**Eye Protection:** Safety glasses and a face shield are recommended. Do not wear contact lenses when using this chemical product.

**Skin Protection:** Other than normal work apparel, not normally required. Protective gloves recommended for skin sensitive individuals when handling the concentrated product.

**Other Protective Equipment:** Fresh water source (hose, eye wash or safety shower) in work area is required when handling any chemical.

**Engineering controls:** Good general ventilation and no ignition source.

### 9. Physical And Chemical Properties

**Chemical Family:** Organic Acid

**pH (use dilution):** less than 3.0

**Flammable limits in air:** Not applicable

**Finished Product Weight:** 12.0 – 12.30 lbs/gal

**Appearance:** yellow orange liquid

**Boiling Point:** 212°F

**Freezing Point:** 33°F

**Percent Volatile Less Water (Weight %):** 0%

**Odor:** Odorless to slight

**Flash Point:** None

**Solubility in Water:** 100% (with mixing)

### 10. Stability and Reactivity

**Stability:** Stable

**Materials to avoid:** Avoid contact with strong alkalines, bleach, strong oxidizers, other acids, strong reducers. In short, do not mix with any other chemicals (other than a sodium bicarbonate neutralizing solution).

**Hazardous Decomposition Products:** Burning can produce carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur and normal products of combustion in trace amounts. Hydrogen gas may be released on contact with certain soft metals at high temperatures.

**Hazardous Polymerization:** Will not occur

**Conditions to avoid:** Excessive heat, open flames, or contact with incompatible materials

### 11. Toxicological Information

**Route(s) of entry:**

**Skin:** Yes

**Eyes:** Yes

**Inhalation:** Yes

**Ingestion:** Yes

**Health Hazards (acute and chronic)**

**Acute:** Corrosive to eyes. Non-corrosive to skin, but may cause skin and respiratory system irritation in some sensitive individuals.

**Chronic:** May cause contact skin dermatitis in some individuals.

**Listed as a carcinogen/ potential carcinogen:** NTP: No

**I.A.R.C. Monographs:** Class 3 (not applicable to humans)

**OSHA:** No

### 12. Ecological Information

**Eco-toxicity:** Pure acid component in un-neutralized form: 96 hour LC<sub>0</sub> > 140 mg/L (rainbow trout), 48 hour LC<sub>0</sub> 71.1 mg/L (ceriodaphnia dubia), 15 minute IC<sub>50</sub> 16.23% effect at a concentration of 10 mg/L (vibrio fischeri, 4H6002). Eco-toxicity once material is properly neutralized (no acidity) is not known exactly but is expected to be very low.

**Environmental Fate:** Not known exactly, but material is expected to be biodegradable.

**Bioaccumulation:** Not known.

### 13. Disposal Considerations

Dispose of unused material, as well as empty containers, in compliance with federal, state, and local regulations. Do not re-use empty containers for other purposes. Empty containers should be triple-rinsed prior to disposal or recycling. Do not dump large quantities of un-neutralized product directly into sewers, on the ground or into any body of water.

### 14. Transport Information

**DOT (U.S. Department of Transportation):** Not regulated

**Proper Ground Shipping Name:** Not regulated, non-hazardous liquid

**Marine Pollutant:** See Section 12

**Air and Water Shipping Name:** Corrosive Liquid NOS

### 15. Regulatory Information

**TSCA:** The components that are required to be listed under the TSCA are listed in section 3.

**SARA Title 3 Section 313, 312, 311:** Toxic chemical notification and release reporting: None of the ingredients are listed.

**California Prop. 65:** This product is not listed to contain any ingredients listed by State of California to cause cancer.

### 16. Other Information

The Safety Data Sheet relates only to the specific information contained and does not relate to other materials or processes. The data contained is believed to be correct, current, and presented in good faith. However, because the conditions of use are outside our control, it should not be taken as a warranty or representation, expressed or implied, for which Shield Solutions, LLC, or agents acting on their behalf, assume legal responsibility. This information is provided solely for consideration, investigation, and verification.

Disclaims any liability against infringement of any patent through customer use of any product or process in combination with other materials or processes. Other precautions: For industrial and commercial use only. Keep out of reach of children and pets. Avoid eye and excessive skin contact. Do not swallow. Wash thoroughly after handling.

**Revision Date:** 03/20/15

**NOTE:** Specifications and government regulations may change without notice. This document should not be regarded as legal advice or regulation. For questions relating to specific aspects of the requirements and regulations, please ask the proper regulatory agency. Always check with your local government or transporter.