SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Citrus Aluminum Brite** Formula Code: 5640

Manufacturer:
1st AYD Corporation
1325 Gateway Drive
Elgin, IL 60124

24-Hour Emergency:
Call 800-255-3924

For More Information Call:
847-622-0001
(Monday - Friday 8:00-4:00)

Synonyms/Generic Names: N/A

2. HAZARDS IDENTIFICATION

IF CONTACT WITH SKIN (or hair): Remove all contaminated clothing immediately and rinse skin with water/shower for at least 15 minutes.

GHS Ratings:

Skin corrosive	1C	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitizer	1A	Skin sensitizer
Reproductive toxin	2A	Effects on or via lactation

GHS Hazards

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H362	May cause harm to breast-fed children

GHS Precautions

P201	Obtain special instructions before use
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P264	Wash … thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see … on this label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
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 victim to fresh air and keep at rest in a position comfortable

	for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container to …

Signal Word: Danger

ACUTE TOXICITY:

CHRONIC EFFECTS:

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Water		70.00% 80.00%
Citric acid	77-92-9	10.00% - 20.00%
Phosphoric acid	7664-38-2	10.00% - 20.00%
Triethanolamine	102-71-6	1.00% - 5.00%

4. FIRST-AID MEASURES

INHALATION: Move exposed party to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

EYE CONTACT: In case of eye contact, rinse with plenty of water for at least 20 minutes and seek medical attention immediately.

SKIN CONTACT: Immediately flush with plenty of water for at least 20 minutes while removing contaminated clothing. Get medical attention immediately.

INGESTION: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash Point: None

LEL: UEL:

FLAMMABLE LIMITS: Product is not flammable. However, contact with metal may release flammable hydrogen gas

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for the surrounding fire.

FIRE AND EXPLOSION HAZARD: Use water spray to cool unopened containers if necessary to prevent BLEVE (Boiling Liquid Expanding Vapor Explosion).

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions toxic fumes should be anticipated.
FIRE FIGHTING: See also Stability and Reactivity section.

FIRE EQUIPMENT: Wear self-contained, approved breathing apparatus and full protective clothing (including eye protection and boots).

6. ACCIDENTAL RELEASE MEASURES

SPILL/LEAK: Follow your companies established procedures for reporting and/or responding to Chemical incidents. No action shall be taken involving any personal risk or without suitable training and use of appropriate personal protective equipment.

See section 8 for recommendations on the use of personal protective equipment.

SMALL SPILL: Stop leak if it can be done without risk. Be sure to utilize appropriate personal protective equipment. Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal in accordance with Federal, state, and local requirements. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with Federal, state, and local regulations.

LARGE SPILL: No action shall be taken involving any personal risk or without suitable training, and use of appropriate personal protective equipment. Stop leak if it can be done without risk. Prevent spillage from entering drains and/or waterways. Any release to the environment may be subject to Federal, state, and local reporting requirements.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Use with adequate ventilation. Avoid formation of aerosols.

See section 8 for recommendations on the use of appropriate personal protective equipment.

STORAGE: Keep container closed when not in use. Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Protect from excessive heat and/or freezing.

REGULATORY: Do not store in unlabeled containers. Adhere to precautionary warnings.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water	Not Established	Not Established	Not Established

Citric acid 77-92-9	Not Established	Not Established	Not Established
Phosphoric acid 7664-38-2	1 mg/m3 TWA	3 mg/m3 STEL 1 mg/m3 TWA	NIOSH: 1 mg/m3 TWA 3 mg/m3 STEL
Triethanolamine 102-71-6	Not Established	5 mg/m3 TWA	Not Established

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

VENTILATION: Use only with adequate ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

ADMINISTRATIVE CONTROLS: No action shall be taken involving any personal risk or without suitable training.

PROTECTIVE GEAR:

Eye protection: Wear safety goggles if eye contact is possible (face shield recommended if splashing is possible).

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: If needed, use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

CONTAMINATED GEAR: Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot, or as a specification for the product.

Vapor Density 5.14 **VOC 11.3 %**

Boiling Range 100 to 335 °C, 212 to 635 °F **Specific Gravity (SG) 0.549**

10. STABILITY AND REACTIVITY

Product is normally stable under normal conditions of storage and handling.
STABLE

INCOMPATIBLE MATERIALS: Strong bases, powdered metals

No Data Available

HAZARDOUS DECOMPOSITION: Undetermined

No Data Available
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

77-92-9	Citric acid Oral LD50: 3 g/kg (Rat)
7664-38-2	Phosphoric acid Oral LD50: 1,530 mg/kg (Rat) Dermal LD50: 2,740 mg/kg (Rabbit)
102-71-6	Triethanolamine Oral LD50: 4,190 mg/kg (Rat)

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

ROUTES OF ENTRY:

No Data Available

TARGET ORGANS:

Eyes Skin Respiratory System

Effects of Overexposure

CARCINOGENICITY: The following chemicals comprise 0.1 % or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NPT, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

CAS Number	Description	% Weight	Carcinogen Rating
None			No Data Available

12. ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials (if any).

Component Ecotoxicity

Citric acid	96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]
Triethanolamine	96 Hr LC50 Pimephales promelas: 10600 - 13000 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >1000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 450 - 1000 mg/L [static] 72 Hr EC50 Desmodesmus subspicatus: 216 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 169 mg/L

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it will likely meet the criteria of a hazardous waste as defined under 40 CFR 261 as a D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel], at a minimum.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Dispose of in accordance with Federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

Important Note: The data provided in this section is for information purposes only. Please consult the appropriate regulations to properly classify your shipment for transportation, as shipping descriptions may vary based upon mode of transport, quantities, package size, and/or origin/destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

For small quantities packed in combination packaging, exceptions may apply.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
PHMSA	Corrosive Liquid, N.O.S. (Contains Phosphoric Acid, Dodecylbenzene-Sulfonic Acid)	UN1760PG II	8	

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
The following chemicals are reportable under Pennsylvania Right to Know:
102-71-6 Triethanolamine
7664-38-2 Phosphoric acid

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:
- None

SARA313
- None

Country	Regulation	All Components Listed
U.S.A.	TSCA	Yes

United States inventory (TSCA 8b): All components are listed or exempted.

- None

SARA 313 Components: The following listed components (if any) are subject to the Supplier Notification Requirement found in 40 CFR 372.45 (c 4); a part of Title III of the Superfund Amendments and Reauthorization Act of 1986.

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

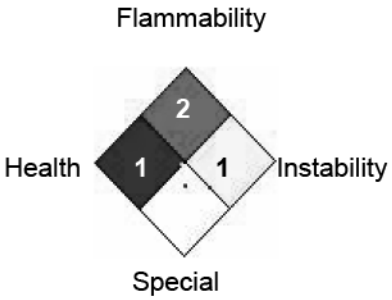
HMIS & NFPA Hazard Rating

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

Legend
*** = Chronic Health Hazard**
0 = INSIGNIFICANT

1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



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