1. Identification

Product identifier Starbrite Ultimate Aluminum Cleaner

Other means of identification

Product code 877XX

Recommended use Cleaner.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Company name Star brite Distributing, Inc.

Address 4041 SW 47th Avenue

Fort Lauderdale, FL 33314 US

Telephone General Information: (954) 587-6280

E-mail Not available.

Contact person Vincent Waclawek

Emergency phone number 24-Hour Emergency: CHEMTREC: (703) 527-3887 or (800) 424-9300

2. Hazard(s) identification

Physical hazards Corrosive to metals Category 1

Health hazards Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May be corrosive to metals.

Precautionary statement

Prevention Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container.

Response Absorb spillage to prevent material damage. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

Supplemental information Keep out of reach of children.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic acid salt</td>
<td>Proprietary</td>
<td>18</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-9</td>
<td>2</td>
</tr>
<tr>
<td>Surfactant blend</td>
<td>Proprietary</td>
<td>2</td>
</tr>
</tbody>
</table>

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures

Inhalation
If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy contaminated clothing and shoes.

Eye contact
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately. In case of irritation from airborne exposure, move to fresh air.

Ingestion
Call a physician or poison control center immediately. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.

Most important symptoms/effects, acute and delayed
Corrosive effects. Symptoms include itching, burning, redness and tearing.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
First aid personnel must be aware of own risk during rescue.

5. Fire-fighting measures

Suitable extinguishing media
Water spray. Alcohol foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
Contact with metal may release flammable hydrogen gas.

Special protective equipment and precautions for firefighters
None known.

Fire-fighting equipment/instructions
Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protection recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up
Absorb spill with vermiculite or other inert material, then place in a container for chemical waste for proper disposal.

Large Spills: Flush area with plenty of water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

Environmental precautions
Environmental manager must be informed of all major releases.

7. Handling and storage

Precautions for safe handling
Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Wash thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed and in a well-ventilated place. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>PEL</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>0.2 mg/m3</td>
<td>Thoracic fraction.</td>
</tr>
</tbody>
</table>

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>
Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection
Hand protection
Chemical resistant gloves are recommended.

Other
Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory protection
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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Thermal hazards
Not applicable.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
Clear liquid.

Physical state
Liquid.

Form
Liquid.

Color
Clear.

Odor
Characteristic.

Odor threshold
Not available.

pH
1

Melting point/freezing point
Not available.

Initial boiling point and boiling range
Not available.

Flash point
Not available.

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not available.

Flammability limit - upper (%)
Not available.

Explosive limit - lower (%)
Not available.

Explosive limit - upper (%)
Not available.

Vapor pressure
Not available.

Vapor density
1.03 (20°C)

Relative density
Not available.

Solubility(ies)
Completely soluble.

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

10. Stability and reactivity

Reactivity
Stable at normal conditions.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.
Conditions to avoid
Corrosive to metals. Contact with certain metals liberates hydrogen gas which can cause a flash fire.

Incompatible materials

Hazardous decomposition products
Contact with aluminum or zinc may release flammable hydrogen gas.

11. Toxicological information

Information on likely routes of exposure

Ingestion May have a corrosive effect on the digestive canal.
Inhalation May cause respiratory tract irritation.
Skin contact Causes skin burns.
Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics
Corrosive. Prolonged contact causes serious eye and tissue damage.

Information on toxicological effects

Acute toxicity Not assigned.
Skin corrosion/irritation Causes severe skin burns.
Serious eye damage/eye irritation Causes serious eye damage.
Respiratory sensitization Not assigned.
Skin sensitization Not assigned.
Germ cell mutagenicity Not assigned.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen, (IARC category 1). This classification applies only to mists containing sulfuric acid and not to sulfuric acid or sulfuric acid solutions.

Reproductive toxicity Not assigned.
Specific target organ toxicity - single exposure Not assigned.
Specific target organ toxicity - repeated exposure Not assigned.
Aspiration hazard Not assigned.

12. Ecological information

Ecotoxicity Large amounts of the product may affect the pH-factor in water with possible risk of harmful effects to aquatic organisms.
Persistence and degradability No data available.
Bioaccumulative potential No data available.
Mobility in soil Not available.
Other adverse effects Not available.

13. Disposal considerations

Disposal instructions
This product, in its present state, when discarded or disposed of, may be a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Hazardous waste code
D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

Waste from residues / unused products
Dispose in accordance with applicable federal, state, and local regulations.

Contaminated packaging
Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
UN number UN1760
UN proper shipping name Corrosive liquids, n.o.s. (Organic acid salt)
Transport hazard class(es) 8
Subsidiary class(es) -
Packing group III
Special precautions for user Not available.
Special provisions IB3, T7, TP1, TP28
Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

IATA
UN number UN1760
UN proper shipping name Corrosive liquid, n.o.s. (Organic acid salt)
Transport hazard class(es) 8
Subsidiary class(es) -
Packaging group III
Environmental hazards No
Labels required Not available.
ERG Code 8L
Special precautions for user Not available.

IMDG
UN number UN1760
UN proper shipping name CORROSIVE LIQUID, N.O.S. (Organic acid salt)
Transport hazard class(es) 8
Subsidiary class(es) -
Packaging group III
Environmental hazards No
Marine pollutant No
Labels required Not available.
EmS F-A, S-B
Special precautions for user Not available.

Transport in bulk according to This substance/mixture is not intended to be transported in bulk.
Annex II of MARPOL 73/78 and the IBC Code
General information This product meets the limited quantities exception as follows:
DOT / IMDG: Limited quantity up to 5 liters.
IATA: Limited quantity up to 1 liter.

15. Regulatory information
US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Sulfuric acid (CAS 7664-93-9) LISTED
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-9</td>
<td>2</td>
</tr>
</tbody>
</table>

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Sulfuric acid (CAS 7664-93-9)
Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)) and Chemical Code Number
Sulfuric acid (CAS 7664-93-9) 6552

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Sulfuric acid (CAS 7664-93-9) 20 % weight/volume

DEA Exempt Chemical Mixtures Code Number
Sulfuric acid (CAS 7664-93-9) 6552

Food and Drug Administration (FDA) Not regulated.

US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List
Sulfuric acid (CAS 7664-93-9)

US. New Jersey Worker and Community Right-to-Know Act
Sulfuric acid (CAS 7664-93-9) 500 lbs

US. Pennsylvania RTK - Hazardous Substances
Sulfuric acid (CAS 7664-93-9)

US. Rhode Island RTK
Sulfuric acid (CAS 7664-93-9)

US. California Proposition 65
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 24-October-2013
Revision date -
Version # 01

NFPA Ratings

16. Other information, including date of preparation or last revision
Disclaimer

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