

# Safety Data Sheet

Beta Brite

## SECTION I - IDENTIFICATION

**PRODUCT NAME:** Beta Brite  
**PRODUCT CODE:** 6360  
**PRODUCT USE:** Aluminum brightener  
**COMPANY NAME:** Beta Technology, Inc.  
**COMPANY ADDRESS:** PO Box 218686 Houston, TX 77218  
**COMPANY PHONE:** 281-647-9700  
**EMERGENCY PHONE:** 800-255-3924

## SECTION II – HAZARDS IDENTIFICATION

**CLASSIFICATION:** Acute Toxicity (Oral / Inhalation / Dermal): Category 3  
Carcinogenicity: Category 1A  
Skin Corrosive: Category 1B  
Eye Damage: Category 1  
Specific Target Organ Toxicity (Repeated Exposure): Category 1  
Corrosive to Metals

**HAZARD STATEMENT(S): DANGER:** Toxic if swallowed, in contact with skin, and if inhaled. Causes Severe skin burns and eye damage. May cause respiratory irritation. May be corrosive to metals.

This product contains the following percentage of chemicals of unknown toxicity: 0%

**PRECAUTIONARY STATEMENTS:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, and face shield. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water or shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Keep container tightly closed. Store in a well-ventilated place locked up. Dispose of contents and container in accordance with local, state, and national regulations. Keep only in original container. Absorb spillage to prevent material damage. Store in a corrosive resistant container with a resistant inner liner.

**SYMBOL:**



**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

## SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Hydrogen Fluoride	7664-39-3	5-10%
Sulfuric Acid	7664-93-9	3-7%
2-Butoxyethanol	111-76-2	1-5%

## SECTION IV - FIRST AID MEASURES

**EYES:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

**INGESTION:** If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.

**INHALATION:** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

**SKIN:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**ACUTE HEALTH HAZARDS:** Causes severe burns.

# Safety Data Sheet

Beta Brite

**CHRONIC HEALTH HAZARDS:** Possible liver, Kidney, blood damage, dental or skeletal fluorosis

**NOTE TO PHYSICIAN:** The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

## SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, and water fog.

**UNSUITABLE EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Toxic fumes may be generated during a fire.

**HAZARDOUS COMBUSTION PRODUCTS:** May react with some metals to generate hydrogen gas which can be explosive in air.

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.

**SPILL:** Clean up using cloth or absorbent material. Dispose of product-containing wiping cloth or absorbent paper in suitable manner. Place waste in proper containers for waste disposal.

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container and recycle or place in trash collection. Drums and pails should be offered for recycling.

**RCRA STATUS:** Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool, dry area locked up. Store in a corrosive resistant container with a resistant inner liner.

Keep containers tightly closed. Do not store near food, drink, or animal food. Gloves, face shield, and protective clothing to cover exposed skin recommended during use. Do not eat, drink or smoke when using this product.

**OTHER PRECAUTIONS:** Keep out of the reach of children.

**INCOMPATIBILITY:** Strong bases and metals

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Hydrogen Fluoride	2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Sulfuric Acid	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
2-Butoxyethanol	20 ppm	50 ppm

**ENGINEERING CONTROLS / VENTILATION:** General ventilation recommended.

**RESPIRATORY PROTECTION:** Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (section VIII) are exceeded.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses, Face shield, Gloves, and Synthetic apron.

**ADDITIONAL MEASURES:** Wash hands and any contaminated clothing immediately after handling. Do not get on clothes or skin.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Blue Liquid

**ODOR:** Acid odor

**ODOR THRESHOLD:** N/D

**BOILING POINT:** N/D

**FREEZING POINT:** < 32°F (0°C)

**FLAMMABILITY:** Not considered a flammable liquid by OSHA (29CFR 1910.1200)

**FLASH POINT:** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**VAPOR PRESSURE (mm Hg):** N/D

# Safety Data Sheet

Beta Brite

**VAPOR DENSITY (AIR=1):** 1  
**EVAPORATION RATE:** N/D  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.1 @ 77° F (25° C)  
**pH:** <1  
**SOLUBILITY IN WATER:** 100%  
**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D  
**VOLATILE ORGANIC COMPOUNDS (VOC):** 0%  
**DECOMPOSITION TEMPERATURE:** N/D  
**VISCOSITY:** N/D

## SECTION X – STABILITY AND REACTIVITY DATA

**REACTIVITY:** Chemically active metals and acids  
**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Chlorine liberating material. Do not mix with bases, ammonia or other cleaning compounds.  
**INCOMPATIBILITY:** Strong bases and metals  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of Carbon, Fluorine, and Sulfur.  
**POSSIBLE HAZARDOUS REACTIONS:** None Known

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** **Sulfuric Acid** (7664-93-9) LD<sub>50</sub> (Oral, Rat) 2296 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 1hr) 372 mg/l  
**Hydrofluoric Acid** (7664-39-3) LC<sub>50</sub> (Inhalation, Rat, 1hr) 1278 ppm  
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin  
**EYES:** Causes burns.  
**INGESTION:** Causes chemical burns, damage to mouth and esophagus with gastrointestinal irritation, nausea, vomiting.  
**INHALATION:** Irritating to the respiratory tract  
**SKIN:** Cause redness, pain, and severe burns to skin. Concentrated solutions cause deep ulcers and discolor skin. Exposure to liquid, vapor, or mist causes severe burns.  
**MEDICAL CONDITION AGGRAVATED:** May aggravate pre-existing medical conditions.  
**ACUTE HEALTH HAZARDS:** Causes severe burns.  
**CHRONIC HEALTH HAZARDS:** Possible liver, Kidney, blood damage, dental or skeletal fluorosis  
**CARCINOGENICITY:** **OSHA:** Not Classified **ACGIH:** A2 - Suspected **NTP:** 1 - Known Carcinogen **IARC:** 1 - Human  
**OTHER:** CA Prop 65

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** **Sulfuric Acid** (7664-93-9) LC<sub>50</sub> (Fish, 96h) 45.0644 mg/l  
**BIODEGRADABILITY:** This product is biodegradable.  
**BIOACCUMULATION:** This product is not expected to bioaccumulate.  
**SOIL MOBILITY:** This product is mobile in soil.  
**OTHER ECOLOGICAL HAZARDS:** None Known

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container and recycle or place in trash collection. Drums and pails should be offered for recycling.  
**RCRA STATUS:** Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric Acid and Sulfuric Acid)  
**HAZARD CLASS/DIVISION:** 8  
**UN/NA NUMBER:** UN 3264  
**PACKAGING GROUP:** II

**AIR SHIPMENT**

# Safety Data Sheet

Beta Brite

**PROPER SHIPPING NAME:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric Acid and Sulfuric Acid)

**HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 3264

**PACKAGING GROUP:** II

**SHIPPING BY WATER:**

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric Acid and Sulfuric Acid)

**HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 3264

**PACKAGING GROUP:** II

**ENVIRONMENTAL HAZARDS WATER:** N/A

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Hydrofluoric Acid (7664-39-3)

Reportable Quantity = 100 lbs Sulfuric Acid (7664-93-9) - Reportable Quantity = 1,000 lbs

**SARA 311/312 HAZARD CATEGORIES:** Acute Health, Chronic Health.

**SARA 313 REPORTABLE INGREDIENTS:** Hydrofluoric Acid - 7664-39-3; Sulfuric Acid-7664-93-9

**STATE REGULATIONS:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Sulfuric Acid (7664-93-9): California Prop 65 (Carcinogenic substance), RTK - MA, NJ, PA, RI.

Hydrofluoric Acid (7664-39-3) RTK: MA, NJ, PA, RI

**INTERNATIONAL REGULATIONS:** All components are listed or exempted.

**NFPA HEALTH:** 3

**HMIS HEALTH:** 3

**NFPA FLAMMABILITY:** 0

**HMIS FLAMMABILITY:** 0

**NFPA REACTIVITY:** 1

**HMIS REACTIVITY:** 1

**NFPA OTHER:** None

**HMIS PROTECTION:** D

## SECTION XVI - ADDITIONAL INFORMATION

**PREPARATION BY:** Chioma Agbai

**DATE PREPARED:** 12/02/2013

**REVISION DATE:** 01/24/2017

N/A = Not Applicable; N/D = Not Determined

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.