

## 1. PRODUCT IDENTIFICATION AND USE

### Product Identification

Product Name: Acid-Brite Aluminum Brightener      Product Number:      EXS006  
Synonyms: Tornado Acid Wash, WAM-O Plus      CAS Number:      Blend

### Company Identification

NuGeneration Technologies, LLC      [www.nugentec.com](http://www.nugentec.com)  
100 Professional Center Drive, Suite 101, Rohnert Park, CA 94928  
(707) 820-4080 (For product information)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC: For emergencies)

SPECIAL NOTES: Contains hydrofluoric and sulfuric acid, use with caution.

## 2. HAZARDOUS INGREDIENTS

100.0% Acid-Brite CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number
SULFURIC ACID	< 20.0 %	7664-93-9
HYDROFLUORIC ACID	< 10.0 %	7664-39-3

### NON-HAZARDOUS COMPONENTS

Chemical Name	Amount	CAS Number
NON-IONIC SURFACTANT	< 10.0 %	68603-25-8

### HMIS/NFPA Rating:

Health - 3, Flammability - 0, Reactivity - 0 Personal Protection Index - D  
NFPA/HMIS Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

### EXPOSURE GUIDELINES:

SULFURIC ACID - Immediate Lethal Dosage: 15 mg/m<sup>3</sup>  
OSHA PEL: 1 mg/m<sup>3</sup>      OSHA TWA: 1 mg/m<sup>3</sup>  
ACGIH TWA: 1 mg/m<sup>3</sup>      ACGIH STEL: 3 mg/m<sup>3</sup>

WHMIS Hazard Symbols:      Class E - Corrosive Material

### Canadian Disclosure List

SULFURIC ACID (7664-93-9)      HYDROFLUORIC ACID (7664-39-3)

## 3. PHYSICAL DATA

FORM .....: Liquid  
COLOR .....: Colorless, Blue, or Red  
ODOR .....: Mildly offensive  
BOILING POINT .....: >212 F  
SOLUBILITY IN WATER .....: Complete  
SPECIFIC GRAVITY .....: 1.186 (Water = 1)  
BULK DENSITY .....: 9.9  
MELTING/FREEZING POINT .....: 32 F  
PH .....: 1      pH @5%: 2  
% VOLATILES .....: 0 %  
VOLATILE ORGANIC COMPOUNDS (VOC) ...: None

INHALATION: No known hazards in normal industrial use. Do not use without adequate ventilation and do not inhale aerosols or heated fumes of this material.

INGESTION: Ingestion is not considered a potential route of exposure. May cause diarrhea, nausea, abdominal cramps. If ingested seek prompt medical attention. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm. This product is completely soluble in water.

**CARCINOGENICITY INFORMATION:** No known cancer hazards.

**MISCELLANEOUS:** Slippery, can cause falls if walked on.

#### **4. FIRE AND EXPLOSION DATA**

**FLAMMABLE PROPERTIES** Auto-ignition Temperature: None

**COC Flash Point:** None **TCC Flash Point:** None

**FLAMMABLE LIMITS IN AIR** LEL: None UEL: None

**EXTINGUISHING MEDIA:** Will not burn.

**FIRE FIGHTING INSTRUCTIONS:** Contaminated extinguishing water must be disposed of in accordance with applicable regulations.

#### **5. REACTIVITY DATA**

**STABILITY:** Stable.

**POLYMERIZATION:** Hazardous polymerization will not occur.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Ferrous and non-ferrous metals.

**DECOMPOSITION:** Decomposition will not occur if handled and stored properly.

**CONDITIONS TO AVOID:** Avoid contact with this material and Ferrous metal surfaces. Avoid contact with strong oxidizer and alkaline materials. Use alkaline materials to neutralize. This material is safe under normal storage and handling conditions.

#### **6. TOXICOLOGICAL PROPERTIES**

**EYE:** Contact causes severe eye irritation and or burns.

**SKIN:** Contact may cause severe skin irritation and possible burns.

**INHALATION:** No known hazards in normal industrial use.

**INGESTION:** Ingestion is not considered a potential route of exposure. May cause diarrhea, nausea, abdominal cramps. If ingested seek prompt medical attention. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

If exposed areas are flushed promptly and thoroughly with water, there should be little or no harm. This product is completely soluble in water.

**CARCINOGENICITY INFORMATION:** No known cancer hazards.

**MISCELLANEOUS:** Slippery, can cause falls if walked on.

**EYE EFFECTS:** Can cause severe eye irritation.

**SKIN EFFECTS:** Contact may cause skin irritation, rash or burns.

**ACUTE ORAL EFFECTS:** No know hazards in normal industrial use.

**ACUTE INHALATION EFFECTS:** No know hazards in normal industrial use.

#### **7. PREVENTATIVE MEASURES**

**RECOMMENDED STORAGE TEMPERATURE**

Minimum: 4.4 C (39.9 F) Maximum: 48.9 C (120.0 F)

**HANDLING (PERSONNEL):** Avoid contact with eyes, skin, and clothing.

**HANDLING (PHYSICAL ASPECTS):** Keep out of reach of children. Keep from freezing. Keep container closed to avoid contamination. Store in a cool dry area.

**STORAGE PRECAUTIONS:** Do not stack pails more than two pallets high. Do not stack drums more than two pallets high. Keep from freezing. Keep container closed when not in use.

**ENGINEERING CONTROLS:** No special ventilation requirements as long as adequate ventilation is present.

**EYE / FACE PROTECTION REQUIREMENTS:** When splashing of the material may occur, chemical goggles and a face shield are recommended.

SKIN PROTECTION REQUIREMENTS: Wear protective gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS: Under normal use conditions, with adequate ventilation, no special handling equipment is required.

MISCELLANEOUS: Where an apron and protective clothing.

SAFEGUARDS (PERSONNEL): Protect skin and eyes from exposure.

INITIAL CONTAINMENT: Contain spilled material.

LARGE SPILLS PROCEDURE:

Forms smooth, slippery surfaces on floors, posing an accident risk. Dilute with water and wash to waste water treatment system. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

WASTE DISPOSAL:

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. For additional waste disposal information contact your local NuGenTec representative at (888) 99-NuGen. Un-cleaned empty containers should be disposed of in the same manner as the contents.

CONTAMINATED MATERIALS: Wash contaminated clothing before reuse.

CONTAINER DISPOSAL: Clean out containers prior to disposal.

### 8. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Immediately flush eyes with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.

INHALATION FIRST AID:

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen. Get immediate medical attention.

INGESTION FIRST AID:

Get medical attention immediately. Do not induce vomiting. Give milk or water.

STATEMENT OF PRACTICAL TREATMENT:

Always have plenty of water available for first aid.

NOTES TO PHYSICIAN: Treat patient symptomatically.

### 9. PREPARATION DATE OF MSDS

Prepared By.....: Donato Polignone PRD Number.....: EXS006

Approval Date.....: August 10, 2005 Supersedes Date...: July 7, 2003

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process.

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END OF MSDS