

# Safety Data Sheet

## SECTION I - IDENTIFICATION

**PRODUCT NAME:** AMP GUARD  
**PRODUCT CODE:** 2500-A  
**PRODUCT USE:** Battery acid cleaner  
**COMPANY NAME:** BETA TECHNOLOGY, INC.  
**COMPANY ADDRESS:** P.O. Box 218686, Houston, TX 77218  
**COMPANY PHONE:** 281-647-9700  
**EMERGENCY PHONE:** 800-535-5053

## SECTION II – HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable Aerosol: Category 1

Liquefied Gas

Eye Irritant: Category 2b

**HAZARD STATEMENT(S):** **DANGER:** Extremely Flammable Aerosol Contains gas under pressure; May explode if heated. Causes eye irritation.

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

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.



**SYMBOL:**

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

## SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
2-Butoxyethanol	111-76-2	1-5%
Propane/n-Butane	68476-86-8	5-10%
Isopropyl Alcohol	67-63-0	1-5%

## SECTION IV - FIRST AID MEASURES

**EYES:** Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.

**INGESTION:** Do not induce vomiting unless directed by medical authority. Immediately rinse mouth with water. Seek immediate medical attention.

**INHALATION:** Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. Seek medical attention if irritation persists.

**SKIN:** Wash thoroughly with soap and water. Seek medical attention if irritation develops.

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision

**CHRONIC HEALTH HAZARDS:** None known

**NOTE TO PHYSICIAN:** There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, water spray for cooling.

**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. Avoid breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** N/A

### SECTION VI – ACCIDENTAL RELEASE MEASURES

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

**SPILL:** Absorb spill with non-combustible material such as vermiculite, sand or earth.

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations.

**RCRA STATUS:** Product should be fully characterized prior to disposal (40 CFR 261).

### SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

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

**INCOMPATIBILITY:** Strong acids, strong alkalis, strong oxidizing agents.

### SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
2-Butoxyethanol	50 ppm	20 ppm
Propane/n-Butane	1000 ppm	1000 ppm
Isopropyl Alcohol	500 ppm	400 ppm

**ENGINEERING CONTROLS / VENTILATION:** General ventilation and local exhaust recommended.

**RESPIRATORY PROTECTION:** Not required under normal use. If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses

**ADDITIONAL MEASURES:** Wash hands thoroughly after handling.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Orange Foam

**ODOR:** Slight Ammonia odor

**ODOR THRESHOLD:** N/D

**BOILING POINT:** > 212°F (100°C)

**FREEZING POINT:** < 32°F (0°C)

**FLAMMABILITY:** Extremely Flammable Aerosol

**FLASH POINT:** N/D

**AUTOIGNITION TEMPERATURE:** N/D

**LOWER FLAMMABILITY LIMIT:** N/D

**UPPER FLAMMABILITY LIMIT:** N/D

**VAPOR PRESSURE (mm Hg):** 17.5 @ 77°F (25°C)

**VAPOR DENSITY (AIR=1):** < 1

**EVAPORATION RATE:** < 1

**SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.00 @ 77° F (25° C)

**pH:** 10.8

**SOLIDS (%):** N/D

**SOLUBILITY IN WATER:** 100%

**PARTITION COEFFICIENT: n-OCTANOL/WATER (K<sub>ow</sub>):** N/D

**VOLATILITY INCLUDING WATER (%):** > 80%

**VOLATILE ORGANIC COMPOUNDS (VOC):** 16%

**DIELECTRIC STRENGTH (Volts):** N/A

**DECOMPOSITION TEMPERATURE:** N/D

**VISCOSITY:** N/D

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## SECTION X – STABILITY AND REACTIVITY DATA

**REACTIVITY:** Chemically active metals and acids

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Temperatures greater than 122°F and sources of ignition.

**INCOMPATIBILITY:** Strong acids, strong alkalis, strong oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of carbon

**POSSIBLE HAZARDOUS REACTIONS:** None Known

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION: 2-Butoxyethanol** (111-76-2) LD<sub>50</sub> (Oral, Rat) 470 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4hr) 450 ppm;

LD<sub>50</sub> (Dermal, Rabbit) 220 mg/kg **Isopropyl Alcohol** (67-63-0) LD<sub>50</sub> (Oral,Rat) 5045 mg/kg; LD<sub>50</sub> (Oral, Rabbit) 5045 mg/kg;

LD<sub>50</sub> (Dermal, Rabbit) 12,800 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 8hr) 16,000 ppm

**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin

**EYES:** Causes mild irritation.

**INGESTION:** May cause gastrointestinal irritation, abdominal cramps.

**INHALATION:** Irritant. Avoid breathing spray mist. May cause irritation to respiratory tract.

**SKIN:** May cause mild irritation, dryness with prolonged or repeated contact.

**MEDICAL CONDITION AGGRAVATED:** None known

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision

**CHRONIC HEALTH HAZARDS:** None known

**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION: Isopropyl Alcohol** (67-63-0) LC<sub>50</sub> (Fathead Minnow, 96 hrs) 100,000 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.

**RCRA STATUS:** Product should be fully characterized prior to disposal (40 CFR 261).

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

**PACKAGING GROUP:** N/A

### AIR SHIPMENT

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

### SHIPPING BY WATER:

#### VESSEL (IMO/IMDG)

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

**ENVIRONMENTAL HAZARDS WATER:** N/A

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## SECTION XV - REGULATORY INFORMATION

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

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA 311/312 HAZARD CATEGORIES:** None

**SARA 313 REPORTABLE INGREDIENTS:** 2-Butoxyethanol (111-76-2)

**CLEAN WATER ACT:** None

**STATE REGULATIONS:** California Proposition 65: None

**INTERNATIONAL REGULATIONS:** 2-Butoxyethanol (111-76-2) Europe (EINECS), Japan (ENCS), Australia (AICS), WHMIS (Canada), DSCL (EEC), NDSL, Korea (ECL), Philippines (PICCS), New Zealand (NZIOC), China (IECS).

**NFPA HEALTH:** 1

**NFPA FLAMMABILITY:** 1

**NFPA REACTIVITY:** 1

**NFPA OTHER:** None

**HMIS HEALTH:** 1

**HMIS FLAMMABILITY:** 1

**HMIS REACTIVITY:** 1

**HMIS PROTECTION:** A

## SECTION XVI - ADDITIONAL INFORMATION

**PREPARATION BY:** Jonathon Jarvis

**DATE PREPARED:** 11/15/2013

**REVISION DATE:** 11/26/2014

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

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