

Safety Data Sheet

SECTION I - IDENTIFICATION

PRODUCT IDENTIFIER: FULL CONTACT
PRODUCT CODE: 2610-A
RECOMMENDED USE: Electronic Cleaning Agent
RESTRICTIONS ON USE: None Known
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: Dissolved Gas
Skin Irritant: Category 2
Eye Irritant: Category 2A
Reproductive Toxicity: 1A
Specific Target Organ Toxicity (Single Exposure): Category 3
Carcinogenicity: Category 1B

HAZARD STATEMENT(S): DANGER: Contains gas under pressure; May explode if heated. Causes skin and serious eye irritation. May damage fertility or the unborn child. May cause respiratory irritation, drowsiness or dizziness. May cause cancer.

This product contains the following percentage of chemicals of unknown toxicity: 10%

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 50°C/122°F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical attention. Do not breathe fumes, mist, vapors, and spray. Get medical advice or attention if you feel unwell. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

SYMBOL:



HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
n-Propyl Bromide	106-94-5	60-100%
1,1,1,2-Tetrafluoroethane	811-97-2	10-20%
Isopropyl Alcohol	67-63-0	1-5%

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

INGESTION: If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

INHALATION: Move to fresh air. If not breathing, administer artificial respiration.

SKIN: If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention.

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

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Skin: defatting and dermatitis

Inhalation: Anesthetic, respiratory irritation, Central Nervous System depression

Oral: abdominal irritation, nausea, vomiting, and diarrhea

CHRONIC HEALTH HAZARDS: Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, lungs, blood, reproductive or central nervous systems. May cause dizziness, headache, nausea, mental confusion, or visual disturbances.

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, and water spray or fog.

UNSUITABLE EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and NIOSH approved SCBA with full facepiece operated in positive pressure or pressure demand. Use water mist to keep material cool in fire situations.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 120°F may cause bursting.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, hydrogen halides, bromides

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 local, state and federal regulations.

RCRA STATUS: Not listed as hazardous waste under RCRA, however 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: Some plastics, strong mineral acids and strong oxidizers. Avoid prolonged contact with aluminum, magnesium and zinc.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
n-Propyl Bromide	Not Established	10 ppm
1,1,1,2-Tetrafluoroethane	Not Established	Not Established
Isopropyl Alcohol	400 ppm	400 ppm

ENGINEERING CONTROLS / VENTILATION: Use only in well ventilated areas.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if used in confined, poorly ventilated areas.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses and chemical resistant gloves

ADDITIONAL MEASURES: Wash hands thoroughly after handling.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless to yellow spray

ODOR: Strong solvent odor

ODOR THRESHOLD: N/D

pH: N/A

MELTING POINT/FREEZING POINT: N/D

INITIAL BOILING POINT AND BOILING RANGE: N/D

FLASH POINT: N/D

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EVAPORATION RATE: 4.7 (Fast)

FLAMMABILITY(solid/gas): Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

LOWER FLAMMABILITY LIMIT: N/D

UPPER FLAMMABILITY LIMIT: N/D

EXPLOSIVE LIMIT LOWER (%): N/D

EXPLOSIVE LIMIT UPPER (%): N/D

VAPOR PRESSURE (mm Hg): 110.8 @ 77°F (25°C)

VAPOR DENSITY (AIR=1): > 1 @ 77°F (25°C)

RELATIVE DENSITY (H₂O=1): 1.30 @ 77°F (25°C)

SOLUBILITY(IES): Non-soluble in water

PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D

AUTOIGNITION TEMPERATURE: N/D

DECOMPOSITION TEMPERATURE: N/D

VISCOSITY:

SECTION X – STABILITY AND REACTIVITY

REACTIVITY: Chemically active metals and acids

CHEMICAL STABILITY: Stable

POSSIBLE HAZARDOUS REACTIONS: None Known

CONDITIONS TO AVOID: Excessive heat. Prolonged contact with free water will result in diminished stabilizer and corrosion.

INCOMPATIBLE MATERIALS: Some plastics, strong mineral acids and strong oxidizers. Avoid prolonged contact with aluminum, magnesium and zinc.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, hydrogen halides, bromides

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: n-Propyl Bromide (106-94-5) LD₅₀ (oral, rat) 4260 mg/kg; LC₅₀ (rat, 0.5hr) 50291 ppm

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes irritation.

INGESTION: Nausea and gastric discomfort.

INHALATION: Causes irritation to the respiratory tract, dizziness, headaches and nausea.

SKIN: Causes mild irritation, dryness, localize defatting.

MEDICAL CONDITION AGGRAVATED: Pre-existing conditions of the skin, liver, kidneys, CNS and respiratory system.

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

Skin: defatting and dermatitis

Inhalation: Anesthetic, respiratory irritation, Central Nervous System depression

Oral: abdominal irritation, nausea, vomiting, and diarrhea

CHRONIC HEALTH HAZARDS: Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, lungs, blood, reproductive or central nervous systems. May cause dizziness, headache, nausea, mental confusion, or visual disturbances.

CARCINOGENICITY: OSHA: Yes ACGIH: No NTP: 2 – Anticipated IARC: 2B - Possible OTHER: CA Prop 65

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY: Not Established

PERSISTENCE AND DEGRADABILITY: Component or components of this product are not biodegradable.

BIOACCUMULATIVE POTENTIAL: This product is not expected to bioaccumulate.

MOBILITY IN SOIL: This product is mobile in soil.

OTHER ADVERSE EFFECTS: None Known

SECTION XIII – DISPOSAL CONSIDERATIONS

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

RCRA STATUS: Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

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SECTION XIV - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.2
UN/NA NUMBER: UN 1950
PACKING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.2
UN/NA NUMBER: UN 1950
PACKING GROUP: N/A

SHIPPING BY WATER:

VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.2
UN/NA NUMBER: UN 1950
PACKING GROUP: N/A
ENVIRONMENTAL HAZARDS WATER: N/A

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): 1,2-butylene oxide (106-88-7) < 0.6% by weight

SARA 311/312 HAZARD CATEGORIES: Immediate

SARA 313 REPORTABLE INGREDIENTS: 1, 2-Butylene Oxide (106-88-7) < 0.6% by weight.

STATE REGULATIONS: This product can expose you to chemicals including 1-Bromopropane, which is known to the State of California to cause cancer and birth defects or other reproductive harm. 1, 2-Butylene Oxide (106-88-7) RTK - NJ, PA, CA, FL, MN, MA

INTERNATIONAL REGULATIONS: n-Propyl Bromide (106-94-5) Canada (DSL): Ingredients listed WHMIS: Class D Division 2B, WHMIS-HC-1

VOLATILE ORGANIC COMPOUNDS (VOC): 75%

NFPA HEALTH:	2	HMIS HEALTH:	2
NFPA FLAMMABILITY:	2	HMIS FLAMMABILITY:	2
NFPA REACTIVITY:	0	HMIS REACTIVITY:	0
NFPA OTHER:	None	HMIS PROTECTION:	B

SECTION XVI - OTHER INFORMATION

PREPARATION BY: Chioma Agbai

DATE PREPARED: 12/27/2013

REVISION DATE: 08/20/2018

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.

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