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

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT</th>
<th>CAS NUMBER</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Bromide</td>
<td>106-94-5</td>
<td>60-100%</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>811-97-2</td>
<td>10-20%</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

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
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

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Bromide</td>
<td>Not Established</td>
<td>10 ppm</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>400 ppm</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

**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
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 (Kow): N/D
AUTOIGNITION TEMPERATURE: N/D
DECOMPOSITION TEMPERATURE: N/D

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).
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
NFPA FLAMMABILITY: 2
NFPA REACTIVITY: 0
NFPA OTHER: None
HMIS HEALTH: 2
HMIS FLAMMABILITY: 2
HMIS REACTIVITY: 0
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

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