

# EnSolv<sup>®</sup> Spec 490

## SAFETY DATA SHEET

Preparation Date: February 1, 2023 Revision 2 - Replaces June 22, 2022

### 1. Product and Company Identification

Product Name: **EnSolv<sup>®</sup> Spec 490**

Product Description: Non-flammable Stabilizer Booster

Product General Use: Re-stabilization of **EnSolv<sup>®</sup>**, **Techkleen<sup>®</sup>** and other 1-bromopropane based solvents. **INDUSTRIAL USE ONLY. NOT FOR CONSUMER SALE OR USE.**

Manufacturer: Enviro Tech International, Inc.  
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Emergency Contact: Velocity EHS 24-HR EMERGENCY CONTACT U.S. & Canada,(800) 255-3924 - INTERNATIONAL CALLS: +01-813-248-0585. Non-Emergency (708) 344-6641 Hours: Mon-Fri 8am-4pm CST

### 2. Hazards Identification

#### Classification

|  |  |
|--|--|
| Skin irritation                                    | Category 2                                     |
| Eye irritation                                     | Category 2                                     |
| Carcinogen   | Category 2B (IARC)<br>Category 1B (California) |
| Reproductive toxicity                              | Category 1B                                    |
| Specific target organ toxicity (single exposure)   | Category 3                                     |
| Ingestion (Acute Toxicity Oral)                    | Category 4                                     |
| Specific target organ toxicity (repeated exposure) | Category 2                                     |

#### Emergency Overview

This product has no flash point and is non-flammable per OSHA and DOT regulations. (OSHA 2021). Vapors may form a flammable mixture at a concentration of 3.8% to 9.5% by volume with air based on 1-bromopropane (ASTM E-681).

#### Signal Word: Danger

#### Hazard Statements

- H303 May be harmful if swallowed
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H333 May be harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer.
- H360 May damage fertility.
- H372 Presumed to have the potential to produce significant nervous system toxicity in humans through prolonged or repeated exposure



## Prevention

- P103 Read label before use.
- P102 Keep out of reach of children.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces.
- P211 Do not spray on an open flame or other ignition source.
- P233 Keep container tightly closed.
- P260 Do not breathe vapors.
- P262 Do not get in eyes, on skin or clothing.
- P263 Avoid contact during pregnancy/while nursing.
- P270 Do not eat, drink or smoke when using this product
- P271 Use in a well-ventilated area.
- P273 Avoid release into the environment.
- P280 Wash face, hands and any exposed skin thoroughly after handling.
- P281 Use personal protective equipment as required.
- P282 Wear Viton or Silvershield gloves. DO NOT use natural rubber or cloth gloves when handling this product.
- P284 Wear respiratory protection. Wear full face mask.

## Response

- P308 + P313 IF EXPOSED or concerned: Get medical advice/attention
- P305 + P351 + P338 + P337 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists, get medical advice/attention
- P303 + P361 + P353 + P352 IF ON SKIN: remove immediately all contaminated clothing. Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs, get medical advice/attention.
- P304 + P340 IF INHALED: Remove individual to fresh air and keep at rest in a position comfortable for breathing.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
- P306 + P361+ P363 IF ON CLOTHING: remove all contaminated clothing immediately. Wash contaminated clothing before reuse

## Storage:

- P403 Store in a dry place. Store indoors.
- P404 + P233 Store in a well-ventilated place. Keep container tightly closed.

## Disposal:

- P501 Dispose of contents/container in accordance with Federal, state and local regulations.

## 3. Composition and Ingredient Information

|                    |              |                   |
|--------------------|--------------|-------------------|
| 1-bromopropane     | CAS 106-94-5 | 50.00 % by weight |
| 1,2-butylene oxide | CAS 106-88-7 | 50.00 % by weight |

## 4. First Aid Measures

- INHALATION Remove person to fresh air. Give oxygen if breathing is difficult. Apply CPR respiration if individual is not breathing.

|                   |   |
|-------------------|---|
| EYE               | Flush eyes with water for at least 15 minutes. Seek emergency medical advice.   |
| SKIN              | Remove contaminated clothing and shoes. Wash contaminated areas immediately with soap and water. Seek medical advice. |
| INGESTION         | Drink large amounts of water. DO NOT induce vomiting. Seek emergency medical advice. Rinse mouth with water.          |
| NOTE TO PHYSICIAN | Treat symptomatically.  |

## 5. Fire Fighting Measures

|                                   |  |
|-----------------------------------|--|
| Flash Point:                      | None   |
| LEL/UEL:                          | 3.8% to 9.5% (based on volume 1-BP/air )   |
| Extinguishing Media:              | Extinguishing media should be chosen based on surrounding conditions - use carbon dioxide, dry chemical powder, alcohol foam or polymer foam. Water may be effective for cooling but not extinguishing.                          |
| Unsuitable Extinguishing Media:   | Do not use water jet as an extinguisher, as this will spread the fire.   |
| Hazardous Combustion Products:    | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases/vapors such as gaseous hydrogen fluoride (HF), carbonyl fluoride, carbon monoxide and carbon dioxide. May form explosive mixtures with air. |
| Special Fire Fighting Procedures: | Avoid breathing fire vapors. Keep run-off water out of sewers and water sources. Dike for water control.   |
| Protective Equipment:             | Use NIOSH/MSHA approved/equivalent self-contained breathing apparatus in positive pressure mode and full protective clothing must be worn in case of fire. Use water spray or fog to cool exposed equipment and containers.      |

## 6. Accidental Release Measures

|                              |   |
|------------------------------|---|
| Personal Precautions:        | Wear protective clothing as described in Section 8 of this Safety Data Sheet. Ventilate enclosed areas. Do not walk through spilled material. Avoid direct contact. Avoid contact with skin, eyes, and clothing. Avoid breathing mist, vapors, spray.   |
| Environmental Precautions:   | Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.  |
| Spill Clean Up Methods:      | Provide ventilation and confine spill. Do not allow runoff to sewer or waterways. Dam and absorb spillage with sand, sawdust or other absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. |
| Reference to other Sections: | For personal protection, see Section 8. For waste disposal, see Section 13.   |

## 7. Handling and Storage

|           |   |
|-----------|---|
| Handling: | Open container carefully - contents may be under pressure. Avoid skin and eye contact. Use Viton or Silvershield gloves for extended protection. Nitrile, neoprene or butyl gloves offer less protection and should be used |
|-----------|---|

for splash protection only. DO NOT use natural rubber or cloth gloves when handling this product. Avoid inhalation of vapors and spray mists. Wear full face mask and NIOSH approved respirator with organic vapor respirator cartridge. Provide adequate ventilation. In use, may form flammable/explosive vapor-air mixture. Handling, storage and use procedures must be carefully monitored to avoid spills or leaks. Contamination that does occur cannot be easily corrected. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form. Store in tightly closed original container in a dry, cool and well-ventilated place. Separate from oxidizing materials. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container.

Storage:

## 8. Exposure Controls and Personal Protection

|                      |   |
|----------------------|---|
| Exposure Limits      | Worker exposure to all chemicals, including this product, should be kept as low as possible at all times. No OSHA PEL has been published for 1-bromopropane. USEPA: An exposure level to 1-BP in the range of 18 to 30 ppm is protective of workers (Federal Register May 30, 2007). ACGIH TLV - .10 ppm for 1-bromopropane. The documentation for the ACGIH 1-BP TLV states that the TLV applies to 1-bromopropane with an iPB content of 0.1 to 0.2 % by weight. The iPB content of 1-bromopropane in this product is shown by GC analysis to be at or below 0.01%, more than an order of magnitude below the iPB level set forth by ACGIH. Therefore, it is questionable whether or not the TLV is applicable to this product. |
| Respiratory          | Wear full face mask with NIOSH/MSHA approved/equivalent organic vapor respirator.   |
| Clothing/gloves      | Wear approved gloves when handling this product. Use Viton or Silvershield gloves for extended protection. Nitrile, neoprene or butyl gloves offer less protection and should be used only for splash protection. DO NOT use natural rubber, cloth or synthetic material gloves when handling this product.   |
| Eye Protection       | Wear full face mask.  |
| Hygienic Practices   | Do not eat, drink or smoke while working with this product. Launder soiled clothes. Provide emergency eye bath and safety shower. Handle in accordance with good industrial hygiene and safety practice.  |
| Engineering Controls | Safety shower, eye wash stations, ventilation systems.  |

## 9. Physical Properties

|   |   |
|---|---|
| APPEARANCE  | Clear, colorless to yellow liquid                             |
| ODOR  | Characteristic  |
| INITIAL BOILING POINT                               | 148.6°F (64.8°C)  |
| FLASH POINT   | None ASTM D-56 TCC. ASTM D-92 COC. ASTM D-93 TCC. OSHA - 2021 |
| UPPER/LOWER FLAMMABILITY LIMITS                     | 3.8% to 9.5% (1-BP/air) - estimated                           |
| VAPOR PRESSURE, mm Hg                               | 137.5 @ 20°C (ESTIMATED)                                      |
| SPECIFIC GRAVITY (25°C ± 5°C, H <sub>2</sub> O = 1) | 1.08 ± 0.01   |
| AUTO-IGNITION TEMPERATURE                           | 860°F (460°C) estimated based on 1-BP                         |
| DECOMPOSITION TEMPERATURE                           | 860°F (460°C) estimated based on 1-BP                         |

## 10. Stability and Reactivity

|                          |   |
|--------------------------|---|
| STABILITY                | Stable under normal conditions.   |
| CONDITIONS TO AVOID      | Avoid open flame, electric arc and other high energy ignition sources. Prolonged contact with free water may result in diminished stabilizer and corrosion. |
| INCOMPATIBILITY          | Incompatible with strong alkalis, oxidizers, bases, reactive metals and natural rubber.   |
| HAZARDOUS DECOMPOSITION  | Thermal decomposition produces carbon monoxide, carbon dioxide, and hydrogen bromide.   |
| HAZARDOUS POLYMERIZATION | Will not occur.   |
| REACTIVITY               | Organic Peroxide: No; Pyroforic: No; Water Reactive: No   |

## 11. Toxicological Information

| Carcinogenicity:   | NTP   | IARC     | OSHA |
|--------------------|---|----------|------|
| 1-bromopropane     | Reasonably anticipated to be a human carcinogen | Group 2B | No   |
| 1,2-Butylene oxide | No  | Group 2B | No   |

### Specific Components:

#### 1-bromopropane

##### Acute Effects

|  |  |
|--|--|
| LD <sub>50</sub> oral rat (male & female):   | 4,260 mg/kg >2,000 mg/kg (OECD 401)  |
| LD <sub>50</sub> dermal rat (male & female): | >2,000 mg/kg (OECD 402)  |
| LC <sub>50</sub> inhalation rat:             | 30 min - 50,291 ppm<br>4 hour - 14,374 ppm<br>35 mg/1 4 hr OECD 403 Remarks: No mortality observed at this dose.   |
| Skin:  | Rabbit (standard method) No skin irritation. (EC)Reg. 1272/2008 Annex VI - Irritating to skin.   |
| Maximization Test - Skin contact             | Guinea pig: Did not cause sensitization (OECD 406)   |
| Eyes:  | Rabbit (standard method) Irritating to eyes.   |
| Mutagenicity:                                | <b>in vitro:</b> Multiple Ames tests with and without metabolic activation. NEGATIVE. (OECD 471)<br>in vivo: 1) Transgenic rodent somatic cell gene mutation assay. Mouse (female) - Inhalation. Result: NEGATIVE. (OECD 488). Test results duplicated in subsequent testing.<br>2) In vivo micronucleus test - rat (male & female) Result: NEGATIVE. (OECD 474) |
| Reproductive & developmental:                | Two-generation inhalation study - Rat, male and female<br>General Toxicity Parent: NOAEL: 100 ppm F <sub>1</sub> : NOAEL: 100 ppm  |
| Fertility:                                   | NOAEL: 100 ppm   |
| Early Embryonic Development:                 | NOAEL: 100 ppm   |
| Fetal development:                           | Pre-/postnatal development - Rat, female - Inhalation  |
| General Toxicity Maternal:                   | NOEL: 100 ppm  |
| Teratogenicity:                              | NOEL: 996 ppm  |
| Embryo-fetal toxicity:                       | NOEL: 100 ppm  |
| Repeated Dose Toxicity:                      | Rat, male and female - 90 day inhalation NOAEC >= 125 ppm. Liver, Reproductive organs  |

High concentrations are irritating to the respiratory tract and may cause headache, dizziness, nausea, vomiting or narcosis. Chronic overexposure at high levels may cause adverse effects in the central nervous system, reproductive system, respiratory system, kidney and liver. Persons having pre-existing diseases of the lungs, eyes or skin may have an increased susceptibility to the hazards of excessive exposure.

**1,2-Butylene oxide**

|   |  |
|---|--|
| Acute oral toxicity LD <sub>50</sub> :                                  | Rat - 900 mg/kg  |
| Acute dermal toxicity LD <sub>50</sub> :                                | Rabbit - > 1,500 - < 2,950 mg/kg   |
| Acute inhalation toxicity LC <sub>50</sub> :                            | Rat (male & female): 4 Hour, vapor, > 6.3 mg/l.  |
| Skin corrosion/irritation:  | Prolonged or repeated contact may cause skin burns and a more severe response if skin is abraded (scratched or cut) or covered (under clothing, gloves). Did not cause allergic skin reactions when tested in guinea pigs. |
| Eye Irritation:   | May cause serious to moderate eye irritation. May cause slight corneal injury.   |
| Specific Target Organ Systemic Toxicity (Single Exposure - Inhalation): | May cause respiratory tract irritation.  |
| Specific Target Organ Systemic Toxicity (Repeated Exposure):            | In animals, peripheral nervous system & respiratory tract.   |
| Mutagenicity:   | In vitro genetic toxicity studies were positive. Animal genetic toxicity studies were negative.  |
| Carcinogenicity:  | Butylene oxide has been shown to produce benign and malignant tumors in rats but not mice. These tumors occurred only following high exposure levels which first produced chronic upper respiratory tract irritation       |
| Reproductive & Developmental:   | Limited data in test animals suggest that the material does not affect reproduction. Did not cause birth defects or fetal effects in test animals.   |

**12. Ecological Information**

**1-bromopropane**

Available data on the organic carbon partition coefficient (K<sub>OC</sub>) the breakdown processes in water and hydrolysis half-life, and the volatilization half-life indicate that 1-bromopropane is less persistent in the environment than many solvents and would be of low to moderate concern for movement in soil. Based on the LC<sub>50</sub>, the acute concentration at which 50% of tested animals die, 1-bromopropane's toxicity to aquatic life is moderate, being less than that for ... trichloroethylene, hexane, *d*-limonene and possibly some aqueous cleaners. Based on EPA's criteria for listing under the Toxics Release Inventory (U.S. EPA, 1992), we believe that 1-bromopropane would not be sufficiently toxic to aquatic life to warrant listing under the Toxics Release Inventory. Based on its relatively low bio-concentration factor and log K<sub>OW</sub> value, 1-bromopropane is not prone to bioaccumulation. (USEPA - Federal Register May 30, 2007).

|  |                           |
|--|---------------------------|
| K <sub>OC</sub> , ORGANIC-CARBON PARTITION COEFFICIENT | 330                       |
| BREAK DOWN IN WATER                                    | Hydrolysis is significant |
| HYDROLYSIS HALF-LIFE                                   | 26 DAYS                   |
| VOLATILIZATION HALF-LIFE FROM SURFACE WATERS           | 3.4 HOURS B 4.4 DAYS      |
| LC <sub>50</sub> (96 HOURS) FOR FATHEAD MINNOWS        | 67 mg/l                   |
| LOG K <sub>OW</sub>                                    | 2.10                      |
| BIOCONCENTRATION FACTOR                                | 23                        |

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **1,2 butylene oxide**

|  |  |
|--|--|
| Acute toxicity to fish:                                    | Material is slightly toxic to aquatic organisms on an acute basis (LC <sub>50</sub> /EC <sub>50</sub> between 10 and 100 mg/L in the most sensitive species tested). |
| LC <sub>50</sub>   | Leuciscusidus (Golden orfe), static test, 96 Hour > 100 mg/l   |
| Acute toxicity to aquatic invertebrates EC <sub>50</sub> : | Daphnia magna (Water flea), static test, 48 Hour, 70 mg/l, OECD Test Guideline 202 or Equivalent   |
| Acute toxicity to aquatic plants ErC <sub>50</sub> :       | Desmodesmus subspicatus (green algae), 72 Hour, Growth rate inhibition, > 500 mg/l   |
| Toxicity to bacteria EC <sub>50</sub> :                    | Activated sludge, static test, 0.5 Hour, Respiration rates, 900 mg/l (OECD 209)  |
| Biodegradability:  | Material is readily biodegradable. Passes OECD test for ready biodegradability.  |
| 10-day Window:   | Pass   |
| Biodegradation:  | 90%. Exposure time: 28 d. Method: OECD 310 or Equivalent   |
| Theoretical Oxygen Demand:                                 | 2.44 mg/mg   |
| Stability in Water (1/2-life)                              | Hydrolysis, half-life, 11 d  |
| Photodegradation   | Atmospheric half-life: 6 days (estimated)  |
| Bioaccumulation:   | Does not accumulate in organisms. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).  |
| Partition coefficient:                                     | n-octanol/water (log Pow) - 0.68 at 25 °C  |
| Mobility in soil:  | K <sub>OC</sub> between 0 and 50   |
| Partition coefficient (K <sub>oc</sub> ):                  | 4.49 Estimated. 96 hours [Fathead Minnow]  |

### **13. Disposal Considerations**

Follow Federal, State and Local governmental regulations. DO NOT flush into sanitary sewer or waterway. Do not reuse empty container.

### **14. Transportation Information**

**PROPER SHIPPING NAME :** NA3082, Other regulated substances, liquid, n.o.s., (1-bromopropane mixture, non-flammable), 9, III  
**(Domestic Transportation Only)**

The above transportation information is valid as of the date of publication of this SDS. Given that regulatory changes are made on an ongoing basis, ETI recommends checking new transportation regulations regularly.

## 15. Regulatory Information

|                     |  |
|---------------------|--|
| USMCA               | Complies   |
| US TCSA             | All of the components of this product are in the TSCA inventory and are active. No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.   |
| US RCRA             | Not regulate as of the date of this SDS  |
| US HAP              | <b>1-bromopropane:</b> YES. CAS 106-94-5 50% by weight. Federal Register Vol 87. No.3. January 5, 2022 pg. 393 - 396. As of January 5, 2022 [t]his action will have no direct, immediate impacts under 40 CFR part 63 on emissions of 1-BP, but the addition of 1-BP to the HAP list could have immediate impacts to facilities that emit 1-BP (e.g., the operating permits program under Title V of the CAA). USEPA determined that additional guidance may be needed on the listing of 1-BP and intends to publish such guidance upon promulgation of this rule. |
| US NESHAP           | <b>1,2-butylene oxide: YES.</b> CAS 106-88-7 50 % by weight<br>No regulations specific to 1-bromopropane or 1,2-butylene oxide have been promulgated as of the date of this SDS. It is recommended users follow current NESHAP rules until further regulations are enacted.  |
| VOC                 | 1,080 g/l - 9.01 lbs/gal   |
| GWP                 | .31 to 1.57  |
| ODP                 | .0013  |
| SARA 302            | This material does not contain any components with a section 302 EHS TPQ.  |
| SARA 304            | This material does not contain any components with a section 304 EHS RQ.   |
| SARA 313            | Subject to reporting:<br>1,2-butylene oxide CAS 106-88-7 50 % weight<br>1-bromopropane CAS 106-94-5 50 % weight  |
| SARA 311/312        | Hazardous Categorization<br>Acute Health Hazard: Yes<br>Chronic Health Hazard: Yes<br>Fire Hazard: No<br>Sudden Release of Pressure Hazard: No<br>Reactive Hazard: No  |
| CERCLA              | 40 CFR 302.4 Component:<br>1,2-butylene oxide CAS 106-88-7 50 % weight RQ 100 lbs<br>1-bromopropane CAS 106-94-5 50 % weight RQ 1 lb   |
| US Clean Water Act: | This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311/Table 116.4A, Section 311/Table 117.3 or any pollutant listed under the U.S. Clean Water Act Section 307   |
| US SNAP             | The Environmental Protection Agency (EPA) approved 1-bromopropane (nPB) as an acceptable substitute for ozone depleting compounds in the precision cleaning sector under the Significant New Alternatives Program (SNAP) Section 612 Clean Air Act. (USEPA - Federal Register May 30, 2007).   |

## STATE REGULATION

**1-bromopropane:** CA PROP 65: WARNING: Known to the State of California to cause developmental, male and female reproductive effects. Known to the State of California to cause cancer. CAL/OSHA PEL 5 ppm. CA Airborne

Contaminants - 1-bromopropane - Can be absorbed through the skin.  
Right to Know: Massachusetts: Higher hazard substance under TURA, New Jersey, Pennsylvania.

**1,2-Butylene oxide:** Right to Know: California Air Toxics Hit Spots A-1 - Present. Massachusetts, New Jersey, Rhode Island, Minnesota. Pennsylvania: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**International:**

**1-bromopropane & 1,2 butylene oxide**

|                  |   |
|------------------|---|
| Canada WHMIS     | Class D Division 2B, WHMIS - HC-1       |
| EU EINECS        | On or in compliance with the inventory  |
| Australia AICS   | On or in compliance with the inventory  |
| Canada DSL       | All components Listed                   |
| China IECSC      | On or in compliance with the inventory. |
| Japan ENCS\ISHL  | On or in compliance with the inventory  |
| Korea KECI (ECL) | On or in compliance with the inventory  |
| New Zealand      | Not in compliance with inventory        |
| Philippine PICCS | On or in compliance with the inventory  |
| Taiwan TCSI      | On or in compliance with the inventory  |

**1-bromopropane**

China On December 1, 2020, regulation GB 38508-2020, *Limits for Volatile Organic Compounds Content in Cleaning Agents* became effective throughout China. Use of 1-bromopropane in China is restricted or prohibited due to VOC content under this regulation. However, the regulation does not apply to such industries as aerospace, nuclear industry, military and semiconductor (including integrated circuit) manufacturing.

**16. Other Information**

Each user of this product should study this SDS carefully and consult appropriate expertise as necessary to become aware of and understand the data contained in this SDS and any hazards that may be associated with this product. The information provided in this Safety Data Sheet relates only to the specific material designated herein. The user is responsible for determining the conditions of safe use of this product and for complying with all Federal, State and Local governmental laws and regulations concerning its use. The information contained herein is accurate to the best of our knowledge. Enviro Tech International, Inc. makes no warranty, express or implied, including the warranty of merchantability and fitness for a particular purpose, and assumes no liability or responsibility for the accuracy, completeness, timeliness or usefulness of this information. Enviro Tech International, Inc assumes no liability for any damages incurred, whether directly or indirectly, as a result of any errors, omissions or discrepancies in this information. Enviro Tech International, Inc. assumes no liability for reliance on this data and assumes no liability for damages related to the use or misuse of this product in your process or in combination with other substances.

|               |                |                    |
|---------------|----------------|--------------------|
| NFPA Health 2 | Flammability 1 | Instability 0      |
| HMIS Health 2 | Flammability 1 | Physical Hazards 0 |

**Preparation Date:** February 1, 2023 Revision 2 - Replaces June 22, 2022  
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