Material Safety Data Sheet

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: BIO/TEC 026
Chemical Family: Proprietary Mixture
Supplier: SOUTHWEST ENGINEERS
            39478 Highway 190 East
            Slidell, LA 70461
Telephone: (985) 643-1117
Fax: (985) 641-4509
Emergency Number: (800) 424-9300 - Chemtrec

HMIS NFPA Hazard Ratings:
Health = 3 3  0 = Least
Fire =   1 1  1 = Slight
Reactivity = 0 0  2 = Moderate
             3 = High
             4 = Extreme

2. HAZARDOUS INGREDIENTS

Product composition contains the following hazardous components reportable under OSHA Regulation 29 CFR 1910.1200:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>WEIGHT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Iodo-2-propynl butyl carbamate (IPBC)</td>
<td>55406-53-6</td>
<td>30%</td>
</tr>
</tbody>
</table>

3. PHYSICAL DATA

Physical State: Liquid at 20°C
Color: Pale yellow
Odor: Characteristic
Odor Threshold: Not available
pH: 7.0 (aqueous solution)
Specific Gravity: 1.145 g/mL
Boiling Point (°F): Not determined
Melting Point/Freezing Point (°F): Not determined
Vapor Pressure: 0.23 torr @ 125° F
Solubility: Not fully miscible with hydrocarbon oil at both the minimum and maximum recommended application concentrations (0.375% v/v and 1.875% v/v). Slightly soluble in water
4. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!
HARMFUL IF INHALED.
EXTREMELY IRRITATING TO EYES AND MAY CAUSE SEVERE DAMAGE INCLUDING BLINDNESS.
MAY BE HARMFUL IF SWALLOWED.
CAUSES MODERATE SKIN IRRITATION.

Hazard Overview

Target Organs: • Respiratory System
• Eyes
• Skin

Primary Route(s) of Exposure: Inhalation. Eyes. Skin.

Acute Health Hazards: Extremely irritating to eyes and may cause severe damage including blindness. Causes moderate skin irritation.

Chronic Health Hazards: Unknown

Signs and Symptoms of Overexposure

Eye Contact: Extremely irritating to eyes and may cause severe damage including blindness.

Skin Contact: Causes moderate skin irritation.

Ingestion: May be harmful if swallowed.

Inhalation: Harmful if inhaled.

5. EMERGENCY & FIRST AID PROCEDURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact: Immediately wash with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: If inhaled, remove to fresh air. If not breathing or if breathing is difficult, give artificial respiration or oxygen by trained personnel. Seek medical attention.

6. FIRE AND EXPLOSION HAZARD DATA

Flash Point (°F): 240.8
Extinguishing Media: water fog, carbon dioxide, foam, dry chemical
Unusual Fire/Explosion Hazards: Unknown
Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.
7. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment.

Procedure for Cleaning/Absorption: Contain spill with sand or other inert materials.

8. HANDLING AND STORAGE

Handling: Do not get in eyes. Avoid contact with skin and eyes. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Wash thoroughly with soap and water after handling.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight.

9. SAFE HANDLING & USE INFORMATION

Engineering Controls: Use in a well ventilated area.
Respiratory Protection: Use in a well ventilated area. Wear a NIOSH approved respirator appropriate for airborne exposure at the point of use.
Hand Protection: All cleanable impervious glove types are acceptable.
Eye Protection: Chemical goggles; also wear a face shield if splashing hazard exists.

Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH Threshold Limit Values Data – Time Weighted Average (TWA)</th>
<th>OSHA Specifically Regulated Substances Data – Time Weighted Average (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbamic acid, butyl-, 3-iodo-2-propynyl ester (IPBC) 55406-53-6</td>
<td>No TLV/TWA Established</td>
<td>No TLV/TWA Established</td>
</tr>
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</table>

10. STABILITY & REACTIVITY DATA

Chemical Stability: Stable under normal conditions of handling, use and transportation.
Hazardous Polymerization: Will not occur
Conditions to Avoid: None anticipated
Materials to Avoid: Corrodes metal packaging containers.

11. TOXICOLOGICAL INFORMATION

Toxicity Test:
- Acute Oral LD50 (mg/kg): 1832 (rat)
- Acute Dermal LD50 (mg/kg): >5000 (rat)
- Acute Inhalation LC50 (mg/l): 1.2 (4H) (rat)
Sensitization: Non-sensitizing to guinea pig skin.
Mutagenicity: Non-mutagenic (Bacterial Reverse Mutation Assay, Chromosomal Aberration Study, Unscheduled DNA Synthesis) (IPBC)
Carcinogenicity: Not carcinogenic in rats after daily administration for 2 years via the diet (up to 80 mg/kg/day) (IPBC)
11. TOXICOLOGICAL INFORMATION – con’t.

Teratogenicity: Does not cause reproductive or developmental toxicity or teratogenicity when administered orally to mice or rats. (IPBC)

Skin Irritation: Moderately irritating to rabbit skin (Tall Oil Fatty Acid Amide)

Eye Irritation: Extremely irritating to rabbit eye.

Other Information: 4-Week Feeding Study: administered to rats via the diet at 60, 125 or 250 mg/kg/day for 4 weeks resulted in treatment-related effects at all doses. A NOEL was not established. (IPBC) 13-Week Oral Toxicity: given to rats by gavage for 5 days/week for 13 weeks at 20, 50 or 125 mg/kg/day with a NOEL of 20 mg/kg/day. (IPBC)

12. ECOLOGICAL INFORMATION

Biodegradability: Not determined.

Aquatic Toxicity: Rainbow Trout: 24, 48, 72 and 96 hour LC50's in rainbow trout were >0.12, 0.097, 0.083 and 0.067 ppm respectively

Bluegill: 24, 48, 72 and 96 hour LC50's in Bluegill were >0.32, 0.23, 0.23 and 0.23ppm respectively

Daphnia magna: 48 hour LC50 in Daphnia magna was determined to be 0.645 ppm in a 48-hour static test without renewal of test media. In a chronic study, the 7-day, 14-day, and 21-day EC50's were 0.142, 0.136 and 0.133ppm respectively

Bioconcentration: low potential for concentration in aquatic biota Avian Toxicity: was not toxic when ingested by quail or malard ducks (IPBC)

13. TRANSPORTATION INFORMATION

Land Transportation:

*DOT (Non-Bulk)*:
UN/NA Number: NONE
DOT Shipping Name: NOT REGULATED
Hazard Class: NONE

THIS PRODUCT IS NOT REGULATED BY US DOT IN PACKAGES LESS THAN 119 GALLONS VIA LAND TRANSPORTATION. IT MUST BE RELABELED FOR EXPORT AND FOR TRANSPORTATION VIA AIR OR SEA.

*DOT (Bulk)*:
UN/NA Number: UN3082
DOT Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (3-Iodo-2-propynyl butyl carbamate)
Hazard Class: 9
Packing Group: III
DOT Marine Pollutant: This product has been determined to be a marine pollutant.
13. TRANSPORTATION INFORMATION – con’t.

Air Transportation (IATA):
- UN Number: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (3-iodo-2-propynyl butyl carbamate)
- Hazard Classification: 9
- Packing Group: III

Sea Transportation (IMO):
- UN/ID Number: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (3-iodo-2-propynyl butyl carbamate)
- Hazard Classification: 9
- Packing Group: III
- Marine Pollutant: This product has been determined to be a marine pollutant.

TDG (Canada):
- UN Number: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (3-iodo-2-propynyl butyl carbamate)
- Hazard Class: 9
- Packing Group: III
- TDG Marine Pollutant: This product has been determined to be a marine pollutant.

14. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

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<tr>
<td></td>
<td>55406-53-6</td>
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</table>

| RCRA Class | Listed |

15. REGULATORY INFORMATION

TSCA Inventory List: This product and/or its components is listed on TSCA.
California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List: None of the components of this product is listed on CALPROP.

WHMIS Ingredient Disclosure List: None of the components of this product is listed on WHMIS Ingredient Disclosure list.
Canada DSL Inventory List: This product and/or its components is listed on DSL.
Canada NDSL Inventory List: This product and/or its components is not listed on NDSL.
15. REGULATORY INFORMATION – con’t.

Japan Inventory of Existing & New Chemical Substances (ENCS):
This product and/or its components is listed on ENCS.

Australia Inventory of Chemical Substances (AICS) List:
This product and/or its components is listed on AICS.

EU EINECS List:
This product and/or its components is listed on EINECS.

ELINCS:
This product and/or its components is not listed on ELINCS

<table>
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<tr>
<th>Components</th>
<th>EPCRA (SARA Title II Section 313 Toxic Chemical Data – De minimis concentration)</th>
<th>EPCRA (SARA Title II Section 302 Extremely Hazardous Substance)</th>
<th>EPCRA (SARA Title III Section 302 Extremely Hazardous Spill Data – Reportable quantity)</th>
<th>EPCRA (SARA Title III Section 302 Extremely Hazardous Substance Data – Threshold Planning Quantity)</th>
<th>EPCRA (SARA Title III Section 313 Toxic Chemical -)</th>
</tr>
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<tbody>
<tr>
<td>Carbamic acid, butyl-, 3-iodo-2-propynyl ester (IPBC) 55406-53-6</td>
<td>1.0%</td>
<td></td>
<td></td>
<td>Listed</td>
<td></td>
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16. OTHER INFORMATION

The information herein is presented in good faith and believed to be correct as of the date hereof. However, Southwest Engineers makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature with respect to the product or to the information herein is made. Southwest Engineers shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use or reliance upon information contained herein.

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