1. Identification

PRODUCT IDENTIFIER

Product Identity: Bio T General Purpose Foam

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended use: See Technical Data Sheet.
Application Method: See Technical Data Sheet.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company Name: BioChem Systems, Inc
P.O Box 8098
The Woodlands, TX 77387-8098

Contact information: 800-777-7870

EMERGENCY TELEPHONE NUMBER: PERS: (800) 633-8253

2. Hazard(s) Identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Flam. Gas 1;H220: Extremely flammable gas.
Press. Gas;H280: Contains gas under pressure; may explode if heated.
Skin Irrit. 3;H316: Causes mild skin irritation. (Not adopted by US OSHA)
Eye Irrit. 2;H319: Causes serious eye irritation.

LABEL ELEMENTS

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H316 Causes mild skin irritation.
H319 Causes serious eye irritation.

[Prevention]:

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Safety Data Sheet
Bio T® General Purpose Foam

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P332+313 If skin irritation occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P377 Leaking gas fire - do not extinguish unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.

[Storage]:
P410+403 Protect from sunlight. Store in a well ventilated place.

[Disposal]:
No GHS disposal statements

3. Composition/Information on Ingredients

### MIXTURES

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange, sweet, extract</td>
<td>10 - 25</td>
<td>Flam. Liq. 2, H225</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0008028-48-6</td>
<td></td>
<td>Asp. Tox. 1, H304</td>
<td></td>
</tr>
<tr>
<td>Additive</td>
<td></td>
<td>Skin Irrit. 2, H315</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Proprietary</td>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
</tr>
<tr>
<td>Petroleum gases, liquefied, sweetened</td>
<td>1.0 - 10</td>
<td>Press. Gas; H280</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0068476-86-8</td>
<td></td>
<td>Flam. Gas 1, H220</td>
<td></td>
</tr>
<tr>
<td>Additive</td>
<td></td>
<td>Skin Irrit. 2, H315</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Proprietary</td>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
</tr>
<tr>
<td>Additive</td>
<td>1.0 - 10</td>
<td>Flam. Liq. 2, H225</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Proprietary</td>
<td></td>
<td>Asp. Tox. 1, H304</td>
<td></td>
</tr>
<tr>
<td>Additive</td>
<td></td>
<td>Skin Irrit. 2, H315</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: Proprietary</td>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

*The full texts of the phrases are shown in Section 16.*
4. First Aid Measures

DESCRIPTION OF FIRST AID MEASURES

General
In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion
If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Overview
Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Eyes
Causes serious eye irritation.

Skin
Causes mild skin irritation. (Not adopted by US OSHA)

5. Fire-fighting measures

FLAMMABILITY

Flammability
Extinguishes flame (flame extension, open flame test)

This product contains a flammable propellant (CAS #68476-86-8) which contains propane, isobutane, and n-butane. Propane has an OSHA PEL of 1000 ppm and is listed by ACGIH as a simple asphyxiant. The dispensed product is a non-flammable aerosol based on the flame extension test.

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, halon

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE
Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

ADVICE FOR FIRE-FIGHTERS

Use self-contained breathing apparatus. DO NOT USE WATER

ERG Guide No. ----

6. Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Put on appropriate personal protective equipment (see section 8).

ENVIRONMENTAL PRECAUTIONS

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Avoid any use of ignition source near spill.

7. Handling and storage

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin, eyes and mucous membranes.

See section 2 for further details. - [Prevention]:

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong oxidizing agents and acids.

Store in a well ventilated area at temperatures below 120F. Do not puncture, freeze or heat aerosol cans.

See section 2 for further details. - [Storage]:


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8. Exposure controls and personal protection

**CONTROL PARAMETERS**

**Exposure**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>OSHA</td>
<td>TWA 400 ppm (980 mg/m3) STEL 500 ppm</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>ACGIH</td>
<td>TWA: 200 ppm STEL: 400 ppm Revised 2003,</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>NIOSH</td>
<td>TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

<p>| CARCINOGEN DATA |
|------------------|------------------|------------------|</p>
<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>OSHA</td>
<td>Select Carcinogen: No</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Additive</td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;</td>
</tr>
</tbody>
</table>

**EXPOSURE CONTROLS**

**Respiratory**

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes**

Protective safety glasses recommended

**Skin**

Impermeable gloves. (Nitrile)

**Engineering Controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:


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9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Citrus</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>9.8</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>Liquid @25°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>200°F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>None- extinguishes flame</td>
</tr>
<tr>
<td>Evaporation rate (Ether = 1)</td>
<td>1 (H2O=1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Gas</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower Explosive Limit: Not Measured</td>
</tr>
<tr>
<td></td>
<td>Upper Explosive Limit: Not Measured</td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>&lt;2 mmHg (Primary Constituent)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&lt;1 (air=1)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.971 @25°C (H2O=1)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Dispersible</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>Not Measured</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

REACTIVITY
Hazardous Polymerization will not occur.

CHEMICAL STABILITY
Stable under normal circumstances.

POSSIBILITY OF HAZARDOUS REACTIONS
No data available.

CONDITIONS TO AVOID
Excessive heat and open flame.

INCOMPATIBLE MATERIALS
Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS
High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.
11. Toxicological Information

**ACUTE TOXICITY**

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange, sweet, extract - (8028-48-6)</td>
<td>5,000.00, Rat - Category: 5</td>
<td>5,000.00, Rabbit - Category: 5</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Additive - (Proprietary)</td>
<td>4,710.00, Rat - Category: 5</td>
<td>12,800.00, Rat - Category: NA</td>
<td>72.60, Rat - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Additive - (Proprietary)</td>
<td>5,100.00, Rat - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product’s ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>3</td>
<td>Causes mild skin irritation. (Not adopted by US OSHA)</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
12. Ecological information

TOXICITY
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details.

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additive - (Proprietary)</td>
<td>1,400.00, Lepomis macrochirus</td>
<td>100.00, Daphnia magna</td>
<td>100.00 (72 hr), Scenedesmus subspicatus</td>
</tr>
<tr>
<td>Additive - (Proprietary)</td>
<td>8.50, Pimephales promelas</td>
<td>2.686, Daphnia magna</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

PERSISTENCE AND DEGRADABILITY
There is no data available on the preparation itself.

BIOACCUMULATIVE POTENTIAL
Not Measured

MOBILITY IN SOIL
No data available.

RESULTS OF PBT AND VPVB ASSESSMENT
This product contains no PBT/vPvB chemicals.

OTHER ADVERSE EFFECTS
No data available.

13. Disposal Considerations

WASTE TREATMENT METHODS
Observe all federal, state and local regulations when disposing of this substance.
Safety Data Sheet
Bio T® General Purpose Foam

UN NUMBER
Not Applicable

UN PROPER SHIPPING NAME
Consumer commodity, ORM-D,

TRANSPORT HAZARD CLASS(ES)
DOT Hazard Class: ORM-D

PACKING GROUP
Not Applicable

ENVIRONMENTAL HAZARDS
IMDG
Marine Pollutant: No

SPECIAL PRECAUTIONS FOR USER
No further information

15. Regulatory Information

REGULATORY OVERVIEW
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

TOXIC SUBSTANCE CONTROL ACT (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS CLASSIFICATION
A D2B F

NFPA/HMIS RATINGS

US EPA TIER II HAZARDS

Fire: Yes
Sudden Release of Pressure: Yes
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 CHEMICALS AND RQS:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 EXTREMELY HAZARDOUS:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 TOXIC CHEMICALS:
Isopropyl Alcohol

PROPOSITION 65 - CARCINOGENS (>0.0%):
Diethanolamine
PROPOSITION 65 - DEVELOPMENTAL TOXINS (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PROPOSITION 65 - FEMALE REPRO TOXINS (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PROPOSITION 65 - MALE REPRO TOXINS (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

NEW JERSEY RTK SUBSTANCES (>1%):
Isopropyl Alcohol
Triethanolamine

PENNSYLVANIA RTK SUBSTANCES (>1%):
Isopropyl Alcohol
Triethanolamine

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapor.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

End of Document