

Safety Data Sheet

Bio T FoamaXX®

1. Identification

PRODUCT IDENTIFIER

Product Identity Bio T FoamaXX
Alternate Names Bio T FoamaXX Aerosol

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.

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[Prevention]:

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.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|---|----------|--|--------|
| Orange, sweet, extract CAS Number: 0008028-48-6 | 25 - 50 | Flam. Liq. 2;H225 Asp. Tox. 1;H304 | [1] |
| Distillates (petroleum), straight-run middle CAS Number: Proprietary | 10 - 25 | Flam. Liq. 3;H226 Asp. Tox. 1;H304 Acute Tox. 4;H332 STOT RE 2;H373 Aquatic Chronic 2;H411 | [1] |
| Additive CAS Number: Proprietary | 1.0 - 10 | Not Classified | [1][2] |
| Petroleum gases, liquefied, sweetened CAS Number: 0068476-86-8 | 1.0 - 10 | Press. Gas;H280 Flam. Gas 1;H220 | [1] |
| Additive CAS Number: Proprietary | 1.0 - 10 | Skin Irrit. 2;H315 Eye Dam. 1;H318 | [1] |

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.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

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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 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. See section 2 for further details. |
| Eyes | Causes serious eye irritation. |
| Skin | Causes mild skin irritation. |

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 or 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.

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

ADVICE FOR FIRE-FIGHTERS

DO NOT USE WATER. Use self-contained breathing apparatus.

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 use of any 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]:

8. Exposure Controls and Personal Protection

CONTROL PARAMETERS

Exposure

| | | | |
|-------------|----------|------|--------------------------------|
| Proprietary | Additive | OSHA | TWA 100 ppm (600 mg/m3) [skin] |
|-------------|----------|------|--------------------------------|

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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| | | |
|--|----------|---|
| | ACGIH | TWA: 100 ppm STEL: 150 ppm Skin |
| | NIOSH | TWA 100 ppm (600 mg/m3) ST 150 ppm (900 mg/m3) [skin] |
| | Supplier | No Established Limit |

Carcinogen Data

No established chemicals at levels which require reporting for this product.

8.2. 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]:

9. Physical and Chemical Properties

| | |
|--|--|
| Appearance | Liquid |
| Odor | Citrus |
| Odor threshold | Not Measured |
| pH | 9.8 |
| Melting point / freezing point | Liquid @ 25C |
| Initial boiling point and boiling range | 166 F |
| Flash Point | Product extinguishes flame. (Flame extension, open flame test) |
| Evaporation rate (Ether = 1) | 1 (H2O=1) |
| Flammability (solid, gas) | Gas |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured |
| Vapor pressure (Pa) | Not Measured |
| Vapor Density | Not Measured |
| Specific Gravity | 0.939 @ 25C |
| Solubility in Water | Soluble |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured |
| Auto-ignition temperature | Not Measured |
| Decomposition temperature | Not Measured |

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Viscosity (cSt)

Not Measured

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.

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|--------------------------------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|--------------------------|
| Orange, sweet, extract - (8028-48-6) | 5,000.00, Rat - Category: 5 | 5,000.00, Rabbit - Category: 5 | No data available | No data available | No data available |
| Additive - (Proprietary) | 3,500.00, Rat - Category: 5 | 19,000.00, Rabbit - Category: NA | No data available | No data available | No data available |
| Additive - (Proprietary) | 5,100.00, Rat - Category: NA | No data available | No data available | No data available | No data available |

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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).

| Classification | Category | Hazard Description |
|-------------------------------|----------|---|
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | 3 | Causes mild skin irritation. (Not adopted by US OSHA) |
| Serious eye damage/irritation | 2 | Causes serious eye irritation. |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

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

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|--------------------------|--------------------------------|----------------------------|-----------------------|
| Additive - (Proprietary) | 10,000.00, Pimephales promelas | 1,919.00, Daphnia magna | 969.00 (72 hr), Algae |
| Additive - (Proprietary) | 8.50, Pimephales promelas | 2.686, Daphnia magna | Not Available |

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

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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.

14. Transport Information

| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|-------------------------------------|---------------------------------------|---|----------------------------------|
| UN NUMBER | Not Applicable | Not Regulated | Not Regulated |
| UN PROPER SHIPPING NAME | , Consumer commodity, ORM-D, | Consumer commodity | Consumer commodity |
| TRANSPORT HAZARD CLASS(ES) | DOT Hazard Class: ORM-D | IMDG: Not Applicable Sub Class: Not Applicable | Air Class: Not Applicable |
| PACKING GROUP | Not Applicable | Not Applicable | 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.

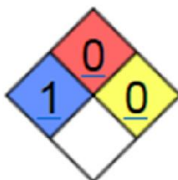
TOXIC SUBSTANCE CONTROL ACT (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS CLASSIFICATION

A D2B F

NFPA/HMIS



US EPA TIER II HAZARDS

Fire: Yes

Sudden Release of Pressure: Yes

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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:

(2-methoxymethylethoxy)propanol

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%):

(2-methoxymethylethoxy)propanol

PENNSYLVANIA RTK SUBSTANCES (>1%):

(2-methoxymethylethoxy)propanol

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.

H226 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.

H332 Harmful if inhaled.



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H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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