# MATERIAL SAFETY DATA SHEET

**Total Solutions** P.O. Box 240014 Milwaukee, WI 53224

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CHEMTREC: (800) 424-9300

## I - Product Identification

# **Bio-Flow Ultra**

**PRODUCT CODE: 0546** 

**CHEMICAL FORMULATION:** Liquid bacteria/enzyme solution.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 0

**HAZARD RATING:** 4 - Extreme: 3 - High; FLAMMABILITY: 0

REACTIVITY: 0

2 - Moderate; 1 - Slight; 0 - Insignificant

## **II - Hazardous Ingredients**

Values reported as TWA unless noted.

APPROX

**OSHA** PEL

ACGIH TLV

EPA 40 CFR: 355 <u>372</u>

CAS#

Contains no hazardous components as defined in 29 CFR 1910.1200

Key: **PEL**: Permissible Exposure Limit

**SUBSTANCE** 

**TLV:** Threshold Limit Value **C**: Ceiling level

STEL: Short Term Exposure Limit

N/A: Not Applicable

N/D: Not Determined

N/E: Not Established

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

# **III - Physical Data**

**BOILING POINT (°F):** > 212

**SPECIFIC GRAVITY (WATER = 1):** 1.00

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/D

**VAPOR DENSITY (AIR = 1):** < 1.0

**EVAPORATION RATE (WATER = 1):**  $\sim$ 1.0

**SOLUBILITY IN WATER:** Soluble

**pH:** 5.50-6.50

**APPEARANCE AND ODOR:** Hazy, light green liquid; pleasant fragrance.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None

(TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %)

**UPPER:** N/A LOWER: N/A

**EXTINGUISHING MEDIA:** Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None

#### V - Reactivity Data

**STABILITY:** Stable

INCOMPATIBILITY: None.
CONDITIONS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

**CONDITIONS TO AVOID: None** 

#### VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: EYE CONTACT: X SKIN CONTACT: X INGESTION: X INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None EFFECTS OF OVEREXPOSURE

**IF IN EYES:** Mild irritation and redness.

IF ON SKIN: Irritation, defatting of skin with prolonged exposure. Bacterial infection may occur through open wounds or broken skin.

IF SWALLOWED: Nausea, cramps, diarrhea. Aspiration of this product may occur.

IF INHALED: None known under normal use.

#### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Wash with water. In case of contact with open wounds or broken skin wash affected area with soap & water and apply a topical antiseptic agent.

**IF SWALLOWED:** Contact physician or poison control center immediately. Give affected person 1 to 2 glasses of water. Never give anything to an unconscious person.

**IF INHALED:** Remove person to fresh air.

## VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal or recover for reuse. Rinse remaining residue with water. WASTE DISPOSAL METHOD: Consult local environmental authorities.

#### **VIII - Special Protection Information**

**RESPIRATORY PROTECTION:** Use with adequate ventilation.

VENTILATION LOCAL: Not required MECHANICAL: Not required

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety glasses.

**OTHER PROTECTIVE EQUIPMENT:** None.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Keep container tightly closed when

not in use.

OTHER PRECAUTIONS: Keep out of reach of children.

# **IX - Transportation Information (ground transportation only)**

**DOT PROPER SHIPPING NAME:** None

DOT CLASS: None DOT ID NUMBER: None DOT PACKING GROUP: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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