

# SAFETY DATA SHEET

BIO TUFF / D5

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

## 1. PRODUCT IDENTIFICATION

**1.1 TRADE NAME (AS LABELED):** BIO TUFF® or D5 Cleaning Compound  
**SYNONYMS:** N/A  
**CAS#:** Mixture  
**1.2 PRODUCT USE:** Hard surface cleaner  
**1.3 MANUFACTURER'S NAME:** Green Mountain Corporation  
**ADDRESS:** 19301 S. Santa Fe Ave., Suite # 116, Rancho Dominguez, CA 90221  
**BUSINESS PHONE:** 1-310-637-0460  
**FAX NUMBER:** 1-310-637-7389  
**1.4 EMERGENCY PHONE NUMBER:**  
  
**EMERGENCY PHONE #:** 1-310-804-2881  
**EMAIL:** info@greenmtncorp.com  
**REPARATION INFORMATION:**  
**DATE OF CURRENT REVISION:** September 13, 2019  
**DATE OF LAST REVISION:** New

## 2. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW:

Product Description: This product is a green / yellow liquid with a characteristic odor.

Health Hazards: Exposure to this product may cause irritation to skin. Direct contact may cause damage to the eyes.

Flammability Hazards: This product is non-flammable.

Reactivity Hazards: None known

Environmental Hazards: The Environmental effects of this product have not been investigated. Release of this product may have adverse effects in the aquatic environment.

### US DOT SYMBOLS

Non-Regulated Material

### GHS Hazard Symbols



Signal Word: DANGER!

### 2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 AND the European Union Council Directives 1907/2006/EC, 1272/2008/EC, 2015/830/EU and subsequent Directives.

#### EU HAZARD CLASSIFICATION OF INGREDIENTS:

Index Number:

EC# 203-905-0 VI Index#: 603-014-00-0

EC# 205-483-3 VI Index#: 603-030-00-8

Remainder of components are not listed

Substances not listed either individually or in group entries must be self classified.

#### Component(s) Contributing to Classification(s)

Sodium Xylene Sulfonate, Ethoxylated Alcohols C 9-11, Trisodium Phosphate, Tetra potassium polyphosphate, MEA, Glycol Ether EB

### 2.2 LABEL ELEMENTS:

#### GHS Hazard Classification(s):

Skin Irritant Category 2

Eye Damage Category 1

#### Hazard Statement(s):

H315: Causes skin irritation

H318: Causes serious eye damage

#### Prevention Statement(s):

P264: Wash skin after handling.

P280: Wear eye protection/ face protection, protective gloves.

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## Response Statements:

P302+P352: IF ON SKIN: Wash with plenty of water.

P321: Specific treatment (See Section 4 of this SDS).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

## Storage Statements:

None applicable

## Disposal Statements:

None applicable

## 2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of exposure for this product are by skin or eye contact.

**ACUTE:**

**INHALATION:** Inhalation of mists may be irritating to the respiratory tract. May cause drowsiness / dizziness.

**CONTACT WITH SKIN:** Contact may cause skin irritation.

**EYE CONTACT:** May cause eye damage.

**INGESTION:** Ingestion may cause gastrointestinal irritation with nausea and diarrhea.

**CHRONIC:** None known

**TARGET ORGANS:** Acute: Eyes, Skin

Chronic: None Known

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS#	Hazard Classification
Water	70-90%	7732-18-5	231-791-2	None
Sodium Xylene Sulfonate	3-7%	1300-72-7	215-090-9	H319 Eye Irritation 2A
Ethoxylated Alcohols C 9-11	3-5%	68439-46-3	614-482-0	H302 Acute Tox 4 (Oral), H318 Eye Damage 1
Trisodium Phosphate	1-3%	7601-54-9	231-509-8	H315 Skin Irritation 2, H319 Eye Irritation 2A, H335 STOT SE 3
Tetra potassium polyphosphate	1-3%	7320-34-5	230-785-7	H319 Eye Irritation 2A
MEA	<1%	141-43-5	205-483-3	H302, H312, H332 Acute Tox 4 (Oral, Dermal, Inhalation), H314 Skin Corrosion 1
Glycol Ether EB	<1%	111-76-2	203-905-0	H302, H312, H332 Acute Tox 4 (Oral, Dermal, Inhalation), H315 Skin Irritation 2, H319 Eye Irritation 2A

Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

## 4. FIRST-AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** If product contacts skin, wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

### 4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Exposure to this product may cause irritation to skin. Direct contact may cause damage to the eyes.

### 4.3 RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

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## 5. FIRE-FIGHTING MEASURES

### 5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

### 5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

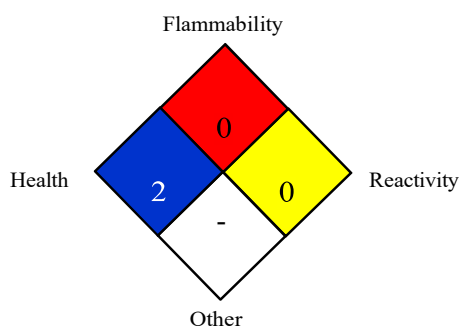
Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

### 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)		2	
FLAMMABILITY HAZARD (RED)		0	
PHYSICAL HAZARD (YELLOW)		0	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See section 8.2 for Exposure Controls.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

### 6.3 SPILL AND LEAK RESPONSE:

Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

## 7. HANDLING and STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-ventilated work area.

### 7.2 STORAGE AND HANDLING PRACTICES:

Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.

### 7.3 SPECIFIC USES:

See Section 1.2.

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## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### 8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Water	7732-18-5	Not Listed	Not Listed
Sodium Xylene Sulfonate	1300-72-7	Not Listed	Not Listed
Ethoxylated Alcohols C 9-11	68439-46-3	Not Listed	Not Listed
Trisodium Phosphate	7601-54-9	Not Listed	Not Listed
Tetra potassium polyphosphate	7320-34-5	Not Listed	Not Listed
MEA	141-43-5	3 ppm	3 ppm 6 mg/m <sup>3</sup>
Glycol Ether EB	111-76-2	20 ppm	50 ppm 240 mg/m <sup>3</sup>

### 8.2 EXPOSURE CONTROLS:

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

**RESPIRATORY PROTECTION:** Not normally required when using this product. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION** Safety glasses or goggles are required where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

## 9. PHYSICAL and CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE (Physical State) and COLOR:** This product is a clear to cloudy green – yellow colored liquid. **ODOR:** Characteristic

**ODOR THRESHOLD:** Not Available

**pH:** 9-11

**MELTING/FREEZING POINT:** Not Available

**BOILING POINT:** Not Available

**FLASH POINT:** Not Available

**EVAPORATION RATE (n-BuAc=1):** Similar to water

**FLAMMABILITY (SOLID, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Applicable

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Applicable

**VAPOR DENSITY:** 1.044

**RELATIVE DENSITY:** Not Applicable

**DENSITY:** Not Applicable

**SPECIFIC GRAVITY:** 1.05

**SOLUBILITY IN WATER:** Soluble

**WEIGHT PER GALLON:** Not Available

**PARTITION COEFFICIENT (n-octanol/water):** Not Applicable

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Available

**VOC g/l / : 46 g/L concentrate. Must be diluted at least 50% to be SCAQMD VOC compliant. Request dilution chart.**

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## 9.2 OTHER INFORMATION:

No additional information available.

## 10. STABILITY and REACTIVITY

### 10.1 REACTIVITY:

This product is not reactive.

### 10.2 STABILITY:

Stable under conditions of normal storage and use.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

### 10.4 CONDITIONS TO AVOID:

Contact with incompatibles.

### 10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong oxidizing agents.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

No specific data available.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

#### TOXICITY DATA:

Glycol Ether EB CAS# 111-76-2:

LD50 Oral - Rat - 880 mg/kg

LD50 Dermal - Rabbit - 1,060 mg/kg

Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion / irritation	Skin Irritation Category 2
Serious eye damage / irritation	Eye Damage Category 1
Respiratory or skin sensitization	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

SUSPECTED CANCER AGENT: None of the ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, or suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be irritating to skin or eyes.

SENSITIZATION TO THE PRODUCT: This product is not considered a respiratory system or skin sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

GERM CELL MUTAGENICITY INFORMATION: No information concerning the effects of this product and its components in relation to Germ Cell Mutagenicity.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: Data not sufficient for classification.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: Data not sufficient for classification.

ASPIRATION HAZARD: Data not sufficient for classification.

## 12. ECOLOGICAL INFORMATION

### 12.1 TOXICITY:

No specific data available on this product.

### 12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

### 12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

### 12.4 MOBILITY IN SOIL:

No specific data available on this product.

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## 12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

## 12.6 OTHER ADVERSE EFFECTS:

No specific data available on this product.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

## 12.7 WATER ENDANGERMENT CLASS:

Water endangering in accordance with EU Guideline 91/155-EWG. Not determined

## 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTETREATMENTMETHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

### 13.2 EU Waste Code:

Not determined

## 14. TRANSPORTATION INFORMATION

### US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14.1 PROPER SHIPPING NAME: Non-Regulated Material

14.2 HAZARD CLASS NUMBER and DESCRIPTION: None

14.3 UN IDENTIFICATION NUMBER: None

14.4 PACKING GROUP: None

14.5 DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

14.6 MARINE POLLUTANT: None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

### 14.7 SPECIAL PRECAUTIONS FOR USER:

Avoid exposure

### 14.8 INTERNATIONAL TRANSPORTION:

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

### 14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

## 15. REGULATORY INFORMATION

### 15.1 UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows:

SARA 313: Glycol Ether EB CAS# 111-76-2

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are on the Proposition 65 Lists.

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## 15.2 CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is classified per WHMIS 2015.

## 15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 1907/2006/EC, 1272/2008/EC, 2015/830/EU and subsequent Directives.

See Section 2 for full Details.

## 15.4 AUSTRALIAN INFORMATION FOR PRODUCT:

The components of this product are listed on the International Chemical Inventory list.

## 15.5 JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:

The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY:

The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:

No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

## 15.6 INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftlist List of Toxic Substances: Listed

U.S. TSCA: Listed

## 16. OTHER INFORMATION

PREPARED BY: Chris Eigbrett – (MSDS to GHS Compliance)

DATE OF PRINTING: September 13, 2019

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Green Mountain Corporation assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Green Mountain Corporation assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

END OF SDS SHEET