



MATERIAL SAFETY DATA SHEET

REVISION DATE: 10/28/2008

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REVISION NUMBER:

3

PREPARED BY:

EH&S DEPARTMENT

1. CHEMICAL PRODUCT

PRODUCT NAME: **DFE BIOBLAST**

PRODUCT CODE: 118267

NFPA/HMIS HAZARD CODES(minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2

Fire: 1/1

Reactivity: 0/0

Special/Protective Equipment: ALK/B

Emergency Phone:

INFOTRAC: 1-800-535-5053

OUTSIDE US: 1-352-323-3500

2. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION: Causes vomiting, nausea, and diarrhea. Aspiration of ingested or vomited liquid into the lungs may cause chemical pneumonia, which can be fatal.

SKIN CONTACT: Prolonged contact may lead to irritation and dermatitis. Glycol ether component can be absorbed through the skin.

INHALATION: Inhalation of spray mists irritating to nose and throat; possible nausea, dizziness. May cause Central Nervous System effects.

EYE CONTACT: May cause severe eye irritation.

CHRONIC EFFECTS: None expected in normal use. Long term overexposure to some glycol ethers by skin absorption or inhalation may cause kidney, liver, or blood effects based on animal testing.

EFFECTS/CARCINOGENICITY: None listed under OSHA, IARC, or NTP.

ROUTES OF ENTRY: Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION CAS#	%	ACGIH TLV	OSHA PELs
Aliphatic hydrocarbon blend 69430-33-7	40 max.	Not applicable	Not applicable
Tripropylene glycol methyl ether 025498-49-1	5 max.	Not applicable	Not applicable

4. FIRST AID MEASURES

INGESTION: Get immediate medical attention. DO NOT INDUCE VOMITING. May cause aspiration pneumonia. Never give anything by mouth to an unconscious person.

SKIN: Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation persists.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTES TO PHYSICIAN: None.

5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	(F): None (C): Not determined
METHOD:	TCC
FLAMMABLE LIMITS IN AIR	
LOWER (%):	No data
UPPER (%):	No data
SENSITIVITY TO MECHANICAL IMPACT(Y/N):	NO
SENSITIVITY TO STATIC DISCHARGE:	Sensitivity to static discharge is not expected.
SUITABLE EXTINGUISHING MEDIA:	Water fog, carbon dioxide, foam, dry chemical.
FIRE FIGHTING PROCEDURES:	Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:	
SMALL SPILLS:	Mop up all possible. Flush residue with water.
LARGE SPILLS:	Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.
PERSONAL PRECAUTIONS:	Not applicable
ENVIRONMENTAL PRECAUTIONS:	Not applicable
METHODS FOR CLEANING UP:	Not applicable

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Caution: Use only with adequate ventilation. Do not store near heat, sparks or flame. Do not store near oxidizing agents. Store only in original container and keep closed. Avoid contact with skin and eyes. Do not breathe mist or vapors.
OTHER PRECAUTIONS:	Do not reuse container. Keep out of reach of children.
SPECIFIC USE(S):	Not applicable.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:	
EXPOSURE CONTROLS:	Use in a well ventilated area.
RESPIRATORY PROTECTION:	None normally required. Use NIOSH approved organic vapor respirator as needed if spray mist or vapors exceed PEL or TLV.
PROTECTIVE GLOVES:	Solvent resistant material such as Viton, neoprene or nitrile rubber.
EYE PROTECTION:	Safety Glasses. Goggles.
OTHER PERSONAL PROTECTION EQUIPMENT:	Appropriate protective clothing as needed to prevent skin contact.
VENTILATION:	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Required when spraying large amounts or applying in confined area. Use non-sparking equipment. No smoking or open lights.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Clear. Yellow. Mild odor. Liquid.
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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F):	212 F (approx.)	(C) Not determined
VAPOR PRESSURE:	7.5 mm Hg @ 68 F	
VAPOR DENSITY (AIR=1):	> 1	
SOLUBILITY IN WATER:	Not determined	
SPECIFIC GRAVITY:	0.927	
VOC Content (%):	35% By EPA Method 24	
EVAPORATION RATE:	< (BuAc = 1) : 1.26	
PH:	12.2 (conc.)	

10. STABILITY AND REACTIVITY

STABILITY DATA:	STABLE
POLYMERIZATION:	Will Not Occur.
HAZARDOUS DECOMPOSITION:	Incomplete combustion produces: Fumes. Smoke. Soot. Carbon Dioxide. Carbon Monoxide.
INCOMPATIBILITY (MATERIALS TO AVOID):	Avoid contact with: Strong acids and oxidizers.
CONDITIONS/HAZARDS TO AVOID:	Open flames. Welding arcs.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Not Established
EFFECTS OF CHRONIC EXPOSURE:	Not established.
OTHER TOXIC EFFECTS:	Not established.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time.
MOBILITY:	Not applicable.
PERSISTENCE/DEGRADABILITY:	Not applicable
BIOACCUMULATIVE POTENTIAL:	Not applicable
OTHER ADVERSE EFFECTS:	Not applicable

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:	Dispose in accordance with Federal, State and Local regulations.
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14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

15. REGULATORY INFORMATION

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
Aliphatic hydrocarbon blend 69430-33-7	40 max.	Not Listed	Listed	Not Listed	Not Listed
Tripropylene glycol methyl ether 025498-49-1	5 max.	Not Listed	Not Listed	Not Listed	Not Listed

DFE BIOBLAST

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
Aliphatic hydrocarbon blend 69430-33-7	40 max.	Not Listed	Not Listed	Not Listed
Tripropylene glycol methyl ether 025498-49-1	5 max.	Not Listed	Not Listed	Not Listed

The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels.

The following components of this material are included in the New Jersey Substance List and are present at or above reportable levels.

The following components of this material are included in the Pennsylvania Substance List and are present at or above reportable levels.

16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

***** END OF MSDS *****