



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	TERRAGREEN ZF ENVIRONMENTAL FINISH
Product number	361001
Revision date	31-Mar-2006
Company information	Brulin & Company, Inc. P.O. Box 270 Indianapolis, IN 46206 US www.Brulin.com
Emergency	CHEMTREC 1-800-424-9300
General information	Phone: 317-923-3211 Fax: 317-925-4596

2. Hazards Identification

Emergency overview	Harmful in contact with eyes. Vapors may cause drowsiness and dizziness. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Prolonged exposure may cause chronic effects.
Potential short term health effects	
Eyes	Health injuries are not known or expected under normal use. Contact with eyes may cause irritation. Avoid contact with eyes.
Skin	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use. Prolonged inhalation may be harmful.
Ingestion	Health injuries are not known or expected under normal use. May be harmful if swallowed.
Potential environmental effects	This material is not expected to be harmful to aquatic life.

3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
Ethanol,2-(2-ethoxyethoxy)	111-90-0	< 2.5
Propanol, (2-Methoxymethylethoxy)-	34590-94-8	< 2.5

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Drink water as a precaution. Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If ingestion of a large amount does occur, seek medical attention.
General advice	Call a physician if symptoms develop or persist. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	Use methods for the surrounding fire.

6. Accidental Release Measures

Personal precautions	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Never return spills in original containers for re-use. Large Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Handling	Handle and open container with care. Avoid contact with eyes.
Storage	Keep in a well-ventilated place. Keep at temperatures between 4 and 43°C. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Propanol, (2-Methoxymethylethoxy)-	34590-94-8	150 Ppm STEL
---------------------------------------	------------	--------------

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Propanol, (2-Methoxymethylethoxy)-	34590-94-8	100 Ppm TWA
---------------------------------------	------------	-------------

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Propanol, (2-Methoxymethylethoxy)-	34590-94-8	Irritation; CNS
---------------------------------------	------------	-----------------

Engineering controls	Use general ventilation.
Personal protective equipment	
Eye / face protection	Wear chemical goggles. Avoid contact with eyes.
Skin protection	Not normally needed. Wear impervious gloves for prolonged contact.
Respiratory protection	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Not available
Clarity	Not available
Color	Opaque white
Form	Liquid.
Odor	mild acrylic
Odor threshold	Not available
Physical state	Liquid
pH	8
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	> 200 °F
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available

Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.031
Relative density	Not available
Solubility (H2O)	Not available
Octanol/H2O coeff	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC (Weight %)	4.55 %

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Do not freeze.
Incompatible materials	None known.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Acute effects	Acute LD50: 38642 mg/kg, Rat, Oral
Local effects	Eye irritation
Chronic effects	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns. This material is not expected to be harmful to aquatic life.
--------------------	--

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
------------------------------	--

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Department of Transportation (DOT) Requirements NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
-------------------------------	--

TERRAGREEN ZF ENVIRONMENTAL FINISH

Product number: 361001

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

International regulations

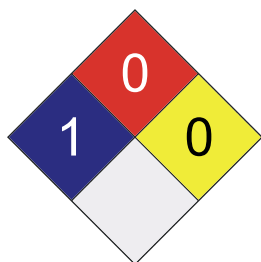
The product is classified and labelled in accordance with EC directives or respective national laws.

16. Other Information

HMIS rating

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	A

NFPA codes



Prepared date

31-Mar-2006 09:58:26

Superseded date

28-Mar-2006 13:47:17

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.