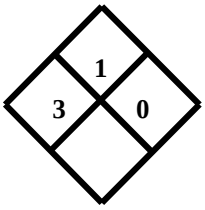
EcoSystems Grout LLC
100 W. Livingston Street
Orlando, Florida 32801
(407) 843-5775

Effective Date: 3/1/07 **Material Safety Data Sheet** **MSDS No:102**

1. PRODUCT IDENTIFICATION



NFPA RATING

Health:	**3**
Flammability:	**1**
Reactivity:	**0**
Personal Protection:	

HMIS RATING

Trade Name: EcoSystems Grout D-2000, A Component

Chemical Family: Epoxy resin blend with surfactant

Synonyms:

Intended Use or Product Type: Epoxy grout

2. COMPOSITION / INFORMATION ON INGREDIENTS

OSHA	CAS No.	CHEMICAL IDENTITY	EXPOSURE LIMITS					CARCINOGEN STATUS		
			ACGIH		OSHA		MFR.	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	Confidential	Reactive diluent	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	Reactive diluent	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	Epoxy Resin	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	Epoxy Resin	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	Surfactant	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	Surfactant	NE	NE	NE	NE	NE	NR	NR	NR
*	Confidential	Aliphatic epoxide	NE	NE	NE	NE	NE	NR	NR	NR

* = OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Causes severe eye irritation and may cause eye burns. Can cause skin irritation and allergic skin reaction. May be harmful if swallowed.

Primary Route(s) of Entry: Dermal; heated product may produce inhalable vapors.

4. FIRST AID MEASURE

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.

Inhalation: Remove to fresh air. Seek immediate medical attention.

Eyes: Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

Overexposure Effects: Causes severe eye irritation and may cause eye burns. Can cause skin irritation and allergic skin reaction. May be harmful if swallowed.

Medical Conditions Aggravated by Exposure: Allergy, eczema or skin conditions.

Additional Information: Referral to a physician is recommended if there is any question about the seriousness of any injury.

5. FIRE FIGHTING MEASURES

Flash Point:	> 200°F (> 93 °C)
Flash Point Method Used:	Estimated
Flammable Limits in Air (Lower - % by volume):	Not Established
Flammable Limits in Air (Upper - % by volume):	Not Established

Fire Fighting Extinguishing Media: Carbon dioxide, dry chemical, foam, water.

Fire Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Remove spillage by absorbing in absorbent material.

7. HANDLING AND STORAGE

Signal Word: Warning!

Precautions: Causes severe eye irritation and may cause eye burns. Can cause skin irritation and allergic skin reaction. May be harmful if swallowed. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Avoid tasting or swallowing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

Storage Information: Store in cool, dry area in closed containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Wear protective equipment to prevent all personal contact.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Engineering Controls: General mechanical and local exhaust in accordance with ACGIH recommendations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light Yellow
Odor:	Epoxy
Physical State:	Liquid
Solubility in Water:	Soluble
Vapor Pressure:	Not Determined
Specific Gravity:	1.13 (Water = 1)
Boiling Point:	> 200°C (> 392 °F)
Evaporation Rate:	Not Determined
Vapor Density:	Not Determined
pH:	Not Determined

Percent Volatile: Negligible.

10. STABILITY AND REACTIVITY

Conditions to Avoid: Elevated temperatures. Elevated temperatures.

Stability: Stable.

Incompatibility: Strong oxidizers, acids and bases.

Hazardous Decomposition Products: Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral Effects (LD50): Component(s) are slightly toxic, 500 - 5000 mg/kg (rat).

Sensitization: Possible in susceptible individuals.

Carcinogenicity: Based on several dermal studies in mice, IARC had concluded in 1999 that diglycidyl ether of bisphenol A is not classifiable as a human carcinogen (Group 3) and has limited evidence of carcinogenicity in animals.

Skin Irritation: Irritant.

Eye Irritation: Severe eye irritant.

Reproduction: For diglycidyl ether of bisphenol A- There were no treatment-related histologic changes noted nor effects on reproductive performance in rats at any oral dose tested.

Teratogenicity: For diglycidyl ether of bisphenol A- No adverse effects on embryonic or fetal development was observed in rabbits after dermal exposure.

Mutagenicity: For diglycidyl ether of bisphenol A- In vitro tests showed mutagenic effects which were not observed with in vivo tests.

Sub-Chronic: Diglycidyl ether of bisphenol A, applied to the skin of rats five times per week for approximately 13 weeks, caused no apparent systemic toxicity with the exception of decreased body weight and body weight gain.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated

Department of Transportation: Not regulated as a hazardous material by the U.S. Dept. of Transportation (DOT) 49 CFR 172.101 hazardous materials table.

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: All chemical components of this product are in compliance with TSCA inventory requirements.

State Regulations:

California Proposition 65: The following is required composition information. This product contains the following chemical(s) which are currently listed on the California list of Known Carcinogens and Reproductive Toxins:

Chemical Name: 1,4-Dioxane
CAS Number: 123-91-1
Percent in Composition: 0.0001 % by wt
Comment: Warning! This chemical is known to the State of California to cause cancer.

Chemical Name: Oxirane
CAS Number: 75-21-8
Percent in Composition: 0 % by wt
Comment: Warning! This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Epoxy Resin
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Epoxy Resin
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Reactive diluent
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Aliphatic epoxide
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Reactive diluent
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Surfactant
CAS Number: Confidential
Comment: Not on Pennsylvania Hazardous Substance List

16. OTHER INFORMATION

MSDS No: 102
Approved By: Robert Forlong
Date: 3/1/07 E

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Disclaimer:
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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST. Hazards, toxicity, and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.