



MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 15/09/2005

PRODUCT NAME: ENVIROSTAR GREEN HARD FLOOR SEALER

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	: EnviroStar Green Hard Floor Sealer	Product Number: 414
PRODUCT USE	: Floor Sealer	

MANUFACTURER	: Pioneer Eclipse Corp.	
P.O.BOX	: 909	
ADDRESS	: 1 Eclipse Road, Sparta, North Carolina, 28675, USA	
PHONE	: +1 336 372 8080	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation: Preparation

INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R-phrases *
Dipropylene Glycol Methyl Ether	252-104-2	2-5	34590-94-8	none	none

* see section 16 for the full text of relevant R-phrases

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: No physical or chemical hazards have been reported or are known.
Human health hazards: This product is not dangerous according to the EU regulations (67/548/EEC-1999/45/EC).
Environmental hazards: On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects when used as directed.

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

Inhalation: None known
Ingestion: None known
Skin contact: May be mildly irritating
Eye contact: May be mildly irritating

FIRST AID MEASURES

Inhalation: No specific measures required
Ingestion: No specific measures required
Skin contact: Immediately wash off with plenty of water. If irritation develops, get medical attention.
Eye contact: Immediately wash out with water. If irritation develops, get medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, water spray, foam, carbon dioxide
Hazardous combustion products: None
Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.
Special fire fighting procedures: None

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6. ACCIDENTAL RELEASE MEASURES

Small spills: Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.

Large spills: Keep spectators away. Floors may be slippery; use care to avoid falling. Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid dike material to separate containers for disposal. Keep spills and cleaning runoff out of sewers and open bodies of water.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes.

Storage: Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit values :

Component Name:	Source / Date	Value / Units	Type	Carcinogenic Listing*
Dipropylene Glycol Methyl Ether	US (ACGIH) / 2005	100 ppm	8 HRS / TWA	N/L
Dipropylene Glycol Methyl Ether	US (OSHA) / 2005	100 ppm skin	8 HRS / PEL TWA	

Exposure controls: No special ventilation requirements. Ensure adequate general ventilation.

OCCUPATIONAL EXPOSURE CONTROLS

Respiratory protection: No specific personal protection is required.

Hand protection: Rubber gloves recommended

Eye protection: Safety glasses recommended

Skin protection: If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

Environmental exposure controls: No specific environmental exposure controls required.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Appearance: Thin milky white opaque liquid

Odour: Non ammoniated

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH: 7.1 to 8.1

Flash point: None

Oxidizing properties: Not an oxidizer

Relative density: 1.03 kg/l @ 20°C

Solubility: 100% soluble (dispersible) in water

Partition coefficient (n-octanol/water): Not determined

Boiling point/boiling range: 100°C

Explosive properties: None

Vapour pressure: Less than water

Viscosity: Less than 10 centipoise @ 20°C

Vapour density: Greater than air

Evaporation rate: Less than water



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Other information: forms a clear film upon drying

10. STABILITY AND REACTIVITY

Conditions to avoid: None known
Materials to avoid: None known
Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

COMPONENT SUMMARY

Dipropylene Glycol Methyl Ether

LD₅₀: (Oral) rat 5.35 g/kg,

LD₅₀: (Skin) rabbit 9.5 g/kg

Potential Health Effects

Eye: Moderately irritating to eyes.

Skin: Mild skin irritation.

Ingestion: Small amount swallowed not likely to cause injury. Larger amounts may cause injury.

Inhalation: Slightly irritating. May cause drowsiness and dizziness.

Chronic: Minor liver or kidney damage. May have anesthetic or narcotic effects.

CARCINOGENICITY: Not expected to occur.

PREPARATION SUMMARY

Acute Toxicity: LD₅₀ estimated to be greater than 2000 mg/kg

LOCAL EFFECTS

Skin contact: Irritating to skin upon repeated or prolonged contact.

Eye Contact: Slightly irritating

Sensitization: None known

Chronic effects: None known

SPECIFIC EFFECTS

Carcinogenicity: None known

Reproductive effects: None known

Teratogenicity: None known

Mutagenicity: None known

12. ECOLOGICAL INFORMATION

COMPONENT SUMMARY

Dipropylene Glycol Methyl Ether

Ecotoxicity: This material is expected to be non-hazardous to aquatic species.

Toxicity to Fish / Amphibians:

<u>Test type</u>	<u>Species</u>	<u>Value / Units</u>
LC50 / 96 HOURS	fathead minnow	10,000 mg/l

Toxicity to Aquatic Invertebrates:



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<u>Test type</u>	<u>Species</u>	<u>Value / Units</u>
EC50 / 48 HOURS	daphnia	5,000 mg/l

Environmental Fate:

This material is volatile and water soluble. It may enter soil and may contaminate water. This material is likely to evaporate from dry soil but not from water. It is not expected to adsorb onto soils or sediments. Theoretical BOD (Closed Bottle Test) 77 - 84% (28 day)

Bioaccumulation: No relevant studies identified.

Biodegradation: This material is expected to be readily biodegradable in acclimated systems.

13. DISPOSAL

Disposal of this material should be in accordance with local, regional, and national regulations.

14. TRANSPORT INFORMATION

INTERNATIONAL TRANSPORTATION REGULATIONS:

This product is not classified for transportation under ADR/IMDG regulations.

UN number: not applicable

Packing group: not applicable

LAND-ROAD/RAILWAY

Proper shipping name: not applicable

ADR/RID class: not applicable

ADR/RID item number: not applicable

SEA

Proper shipping name: not applicable

IMDG class: not applicable

AIR

Proper shipping name: not applicable

ICAO class: not applicable

Medical First Aid Guide (MFAG): not applicable

Emergency Schedules (EmS): not applicable

Marine Pollutant: none

15. REGULATORY INFORMATION

NATIONAL REGULATIONS: No additional national regulations are known to the supplier.

EU REGULATIONS

EU Classification: Classified as non-hazardous according to current legislation (67/548/EEC, 1999/45/EC).

EINECS Status: All ingredients are included in the EINECS inventories.

CANADA CPR Status: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.



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16. OTHER INFORMATION

Issued by:

Genie G Bost, Regulatory Affairs Manager

Revision Information:

15/09/2005, revisions conforming to 2001/58/EC.