



MATERIAL SAFETY DATA SHEET

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

PRODUCT NAME: ILLUMINATE MAINTAINER

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

PRODUCT NAME	: Illuminate Maintainer	Product Number: 206
PRODUCT USE	: Water based floor coating maintainer	

MANUFACTURER	: Pioneer Eclipse Corp.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation: Preparation

INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R-phrases *
Diethylene glycol monoethyl ether	203-919-7	1-5	111-90-0	Xi (irritant)	R36

* 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 diking 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:** None established.
- 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: Light blue liquid

Odour: Characteristic

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH: 8.95 to 9.45

Flash point: None

Oxidizing properties: Not an oxidizer

Relative density: 1.02 kg/l @ 20°C

Solubility: 100% soluble (dispersible) in water

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

Other information: NA

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

COMPONENT SUMMARY

Diethylene Glycol Ethyl Ether

LD₅₀: (Oral) rat 5.5 g/kg

LD₅₀: (Skin) rabbit 9.0 g/kg

Potential Health Effects

Eye: May cause irritation to eyes. Symptoms include stinging, tearing, redness and swelling of eyes.

Skin: Mild skin irritation. May cause redness and burning of skin.

Ingestion: Small amount swallowed not likely to cause injury. Larger amounts may cause injury similar to inhalation health effects. Also see below acute oral effects below.

Inhalation: Breathing small amounts not harmful but large amounts may be harmful. May cause dizziness or drowsiness, central nervous system depression, nausea, headache, confusion or unconsciousness.

Chronic: May cause liver or kidney damage.

ACUTE ORAL EFFECTS:

Rat toxicity data (5.0 g/kg/day) indicates oxalate crystals in urine, degeneration of the liver and renal tubules, and transient dermatitis.

Repeated Dose Toxicity:

In a two year drinking water study with rats and mice no adverse effects were observed at 1% and 5%, respectively.

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

Diethylene Glycol Monoethyl Ether

Fathead Minnow; 96 hr; LC50 > 10000 mg/l

Preparation Summary

Ecotoxicity: This material is highly soluble in water. Limited toxicity tests and models indicate this material should exhibit low toxicity to aquatic organisms.

Environmental fate: This material will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.

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Bioaccumulation: Because of this material's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil. On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects, when used as directed.

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*.

16. OTHER INFORMATION

Relevant R-phrases: R36: Irritating to eyes

Issued by: Genie G Bost, Regulatory Affairs Manager

Revision Information: 15/09/2005, revision conforming to 2001/58/EC