



MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 13/10/2005

PRODUCT NAME: ECLIPSE LOW ODOR NON-BUTYL STRIPPER

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

| | | |
|--------------|---------------------------------------|---------------------|
| PRODUCT NAME | : Eclipse Low Odor Non-Butyl Stripper | Product Number: 510 |
| PRODUCT USE | : Floor Coating Remover Concentrate | |
| MANUFACTURER | : Pioneer Eclipse Corp. | |
| P.O.BOX | : 909 | |
| ADDRESS | : 1 Eclipse Road, Sparta NC28675, 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 |
|-----------------|------------|----------|----------|-------------------------------|------------------|
| Benzyl Alcohol | 202-859-9 | 20-30 | 100-51-6 | Xn (harmful) | R20/22 |
| 2-Amino-Ethanol | 205-483-3 | 10-20 | 141-43-5 | Xn (harmful) C (Corrosive) | R20/21/22 R34 |

*See section 16 for the full text of relevant R phrases

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: Corrosive
Human health hazards: Corrosive.
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: May be harmful if inhaled. May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: May cause burns to mouth, throat and stomach. May be harmful if swallowed.
Skin contact: May cause permanent damage. Harmful in contact with skin.
Eye contact: May cause permanent damage.

FIRST AID MEASURES

Inhalation: If breathing is difficult: Remove to fresh air. Get medical attention immediately.
Ingestion: Do not induce vomiting! Immediately drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin contact: Immediately wash off with plenty of water for at least 15 minutes. Get medical attention immediately.
Eye contact: Immediately wash out with water for at least 15 minutes. Get medical attention immediately.

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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: Corrosive material (See Sections 8 and 10).

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 eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapours or spray mists. Remove and wash contaminated clothing and footwear before re-use.
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* |
|-----------------|-------------------|--------------------------------|---------------|-----------------------|
| 2-aminoethanol | US (ACGIH) / 2005 | 3 ppm 7.5 mg/m ³ | 8 HRS / TWA | N/L |
| 2-aminoethanol | US (ACGIH) / 2005 | 6 ppm 15 mg/m ³ | 15 min / STEL | |

*1 = OSHA 2 = IARC 3 = NTP 4 = Others N/L = Not Listed

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: Clear red liquid

Odour: Slight ammonia



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IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH: 12.0 to 13.0

Flash point: none

Oxidizing properties: Not an oxidizer

Relative density: 1.045 kg/l @ 20°C

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

Vapour density: Greater than air

Boiling point/boiling range: 100°C

Explosive properties: None

Vapour pressure: Less than water

Solubility: 100% soluble in water

Viscosity: less than 5 CPS @ 20°C

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

Benzyl Alcohol:

LD₅₀: (Oral) rat 1.23 g/kg

Potential Health Effects

Eye: Causes eye irritation.

Skin: May cause skin irritation.

Ingestion: Harmful if swallowed. Can cause lung damage.

Inhalation: May cause headache, dizziness, nausea and respiratory tract irritation.

Chronic: May cause defatting of the skin.

CARCINOGENICITY: Not expected to occur.

2-aminoethanol:

2-aminoethanol is a severe eye irritant and a skin irritant. Chronic exposure can cause irritant or allergic contact dermatitis, occupational asthma and possibly liver damage. 2-aminoethanol was teratogenic in rats exposed by the oral route at high doses.

LD₅₀: (Oral) rat 1200 mg/kg

ACUTE INHALATION EFFECTS: Prolonged and repeated exposure to vapors may cause damage to the CNS, lungs and kidneys.

ACUTE ORAL EFFECTS: May cause CNS depression, gastrointestinal tract, liver and kidney damage.

REPEATED DOSE TOXICITY: Chronic occupational exposure reportedly was associated with chronic bronchitis, liver damage, weakness and fatigue. Occupational asthma has also been reported with chronic exposure. Rats chronically exposed had degenerative changes in the liver, heart and lungs.

CARCINOGENICITY: At the time of this review, no studies were found on the possible carcinogenic activity of this material in humans or experimental animals.

PREPARATION SUMMARY

Acute Toxicity:

LD₅₀ estimated to be greater than 2000 mg/kg.

PRODUCT NAME: ECLIPSE LOW ODOR NON-BUTYL STRIPPER**LOCAL EFFECTS**

| | |
|-------------------------|---------------|
| Skin contact: | See section 4 |
| Eye contact: | See section 4 |
| 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**Benzyl Alcohol:

Ecotoxicity in water(LC50): 460 ppm (Fathead minnow) (96 hrs) Practically non-toxic, 10 ppm (Bluegill sunfish) (96 hrs) slightly toxic, 15 ppm (Tidewater silverside fish) (96 hrs) slightly toxic, 360 ppm (Daphnia) (48 hrs) practically non-toxic.

2-Aminoethanol

Fathead minnow; 96hr; LC50 = 206 mg/l

PREPARATION SUMMARY

| | |
|----------------------------|---|
| Ecotoxicity: | This preparation is highly soluble in water. Limited toxicity tests and models indicate this preparation should exhibit low toxicity to aquatic organisms. |
| Environmental Fate: | This preparation 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. |
| Bioaccumulation: | Because of this preparation'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. Based on available information, this 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:**

| | |
|--------------------------|---------------------------|
| UN number: UN1760 | Packing group: III |
|--------------------------|---------------------------|

LAND-ROAD/RAILWAY

| | |
|------------------------------|--|
| Proper shipping name: | Corrosive liquid, n.o.s. contains ethanolamine |
| ADR/RID class: | 8 |
| ADR/RID item number: | 80°c |

PRODUCT NAME: ECLIPSE LOW ODOR NON-BUTYL STRIPPER

SEA

Proper shipping name: Corrosive liquid, n.o.s. contains ethanolamine
IMDG class 8

Medical First Aid Guide (MFAG): 730
Emergency Schedules (EmS): Fire F-A, Spillage S-B
Marine Pollutant: none

15. REGULATORY INFORMATION

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

EU REGULATIONS

Hazard symbol:



EU Classification: Corrosive (67/548/EEC-88/379/EEC)

Risk phrases: See section 16.

Safety phrases: S1/2- Keep locked up and out of the reach of children.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
 S45- In case of accident or if you feel unwell, seek medical advice immediately.

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

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 R34- Causes burns.

Issued by:

Genie G Bost, Regulatory Affairs Manager

Revision Information:

13/10/2005, revisions conforming to 2001/58/EC