

PRODUCT NAME: FORMULA X BASEBOARD GEL STRIPPER

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

PRODUCT NAME	: Formula X Baseboard Gel Stripper	Product Number: 503A
PRODUCT USE	: Aerosol floor polish stripper	
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
N-Butane	203-448-7		106-97-8	F+ (extremely flammable) T (Toxic)	R12, R45, R46
Propane	200-827-9		74-98-6	F+ (extremely flammable)	R12
2-butoxyethanol	203-905-0	< 8	111-76-2	X _n (Harmful) X _i (irritant)	R20/21/22, R36/38
2-Aminoethanol	205-483-3	< 2	141-43-5	X _n (Harmful) C (corrosive)	R20/21/22 R34

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

3. HAZARDS IDENTIFICATION

Physical/chemical hazards: Flammable-Keep away from heat and flame. Contents under pressure.
Human health hazards: Irritating to eyes and tissue. Harmful if swallowed.
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: High vapor/aerosol concentrations are irritating to respiratory tract.
Ingestion: May cause headache, dizziness, incoordination, nausea, vomiting, diarrhea and general weakness.
Skin contact: May be mildly irritating.
Eye contact: Causes severe irritation.

FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.
Ingestion: Seek medical attention immediately.
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.

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5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, water spray, foam, carbon dioxide

Hazardous combustion products: carbon monoxide

Unusual fire and explosion hazards: Aerosol product – Containers may rocket or explode in heat of fire.

Special fire fighting procedures: Fight fire from protected location or maximum distance possible. In case of fire and/or explosion, do not breathe fumes. Contents under pressure. Cool exposed containers with water spray to prevent bursting.

6. ACCIDENTAL RELEASE MEASURES

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

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. Eliminate all ignition sources.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes

Storage: Storage temperature (Max. 50°C/122°F) (Min. 1°C/34°F). Keep from freezing. Keep out of reach of children. Keep away from heat and direct sunlight.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit values :

Component Name:	Source / Date	Value / Units	Type	Carcinogenic Listing*
2-butoxyethanol	US (ACGIH) / 2005	20 ppm	8 HRS / TWA	N/L
2-butoxyethanol	US (OSHA) / 2005	50 ppm SKIN	8 HRS / PEL TWA	
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	
Propane	US(OSHA) 2005	1000 ppm	8 HRS / TWA	N/L
Butane/propane propellant mixture	US(ACGIH) 2005	1000 ppm	8 HRS / TWA	N/L

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

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

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Respiratory protection: When required, use organic vapor and particulate cartridge.
Hand protection: Rubber gloves recommended.
Eye protection: Safety glasses or goggles 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 OF CONTENTS**GENERAL INFORMATION****Appearance:** Aerosol**Odour:** Slight ammonia/glycol ether**IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION****pH:** 12.5**Flash point:** Not available**Oxidizing properties:** Not an oxidizer**Relative density** 1.0 kg/l @ 20°C**Partition coefficient (n-octanol/water):** Not determined**Vapour density:** Greater than air**Other information:** N/A**Boiling point/boiling range:** 200° F**Explosive properties:** None**Vapour pressure:** Less than water**Solubility:** 100% soluble in water**Viscosity:** Not determined**Evaporation rate:** Less than water**10. STABILITY AND REACTIVITY****Conditions to avoid:** Excessive heat**Materials to avoid:** None known**Hazardous decomposition products:** CO, CO₂**11. TOXICOLOGICAL INFORMATION****COMPONENT SUMMARY**2-butoxyethanol**LD₅₀:** (Oral) rat 470 mg/kg**ACUTE INHALATION EFFECTS:**

Short term exposure to high concentrations of vapors (300 - 600 PPM) can cause respiratory and eye irritation, CNS depression, and possible damage to kidney and liver.

ACUTE ORAL EFFECTS:

The major toxic effect in acute and sub-chronic animal studies was intra-vascular red cell hemolysis (destruction). This was often associated with secondary effects such as spleen and liver enlargement and nephropathy. Studies show that hemolysis and secondary effects are not relevant to humans.

SKIN EFFECTS:

This substance is a mild skin irritant.

EYE EFFECTS:

This product is expected to be an eye irritant.

REPEATED DOSE TOXICITY:

Administration of ethylene glycol monobutyl ether (EGBE) to rats (855 mg/kg/day) and mice (1000 mg/kg/day) for periods of 5-6 weeks showed no effects on the tests. NTP reported testicular weight changes in rats and mice ingesting up to 6000 PPM (443 and 694 mg/kg/day in rats and mice) of EGBE in a 13 week drinking water study. No chemically related microscopic lesions were seen.

CARCINOGENICITY:

Not expected to occur.

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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**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**

Propane: not available

2-butoxyethanol

Fathead minnow LC50 = 1900 mg/l

Aminoethanol

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

Butane

The aquatic 96 hr TLM is > 1000 ppm

Preparation Summary

Ecotoxicity: These materials are highly soluble in water. Limited toxicity tests and models indicate these materials should exhibit low toxicity to aquatic organisms. These materials have exhibited low toxicity in laboratory testing with rats.

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Environmental fate: These materials 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 these materials' high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that these materials will preferentially partition to water versus air or soil. On the basis of available information, this material 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: UN 1950

Packing group: not applicable

LAND-ROAD/RAILWAY

Proper shipping name: Limited Quantity of 1950 aerosols

ADR/RID class: 2

ADR/RID item number: none

SEA

Proper shipping name: Limited Quantity of 1950 aerosols

IMDG class: 2.2

Medical First Aid Guide (MFAG): 330

Emergency Schedules (EmS): Fire F-D, Spillage S-U

Marine Pollutant: none

15. REGULATORY INFORMATION

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

EU REGULATIONS

Hazard Symbol:



EU Classification: Classified as Flammable and Harmful according to current legislation (67/548/EEC, 1999/45/EC).

Risk phrases: See section 16.

Safety phrases: S1/2- Keep locked up and out of the reach of children.
S9-Keep container in well-ventilated place.
S16-Keep away from sources of ignition-No smoking.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek

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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.

S46-If swallowed seek medical advice immediately and show this container or label.

S53-Avoid exposure-obtain special instructions for use.

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:**

R12-Extremely flammable.

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

R34- Causes burns.

R36/38-Irritating to eyes and skin.

R45-May cause cancer.

R46-May cause heritable genetic damage.

Issued by:

Genie G Bost, Regulatory Affairs Manager

Revision information:

17/10/2005, revision conforming to 648/2004/EC