

FORMULA X-TREME ULTRA HIGH PERFORMANCE STRIPPER

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

Product Name: Formula X-treme UHP Stripper
Product Use: Floor polish remover concentrate

Product Number: 549

Manufacturer Address:
 Amano Pioneer Eclipse Corp.
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 Sparta, NC 28675 / USA

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For Chemical Emergency - Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
 Within USA and Canada 1 800 424 9300 Outside USA and Canada: +1 703 527 3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION

This preparation has been classified and labeled according to 1999/45/EC.

EU Classification: Corrosive

Danger Symbol:



Risk phrases: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 R35- Causes severe burns.
 R36/37/38- Irritation to eyes, respiratory system and skin.

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.
 S37/39- Wear suitable gloves and eye/face protection.
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
 S46- If swallowed, seek medical advice immediately and show this container or label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	EC No.	Weight %	CAS No.	Symbol	R-phrases *
ethylene glycol monobutyl ether	203-905-0	30 - 60	111-76-2	X _n (Harmful) X _i (Irritant)	R20/21/22 R36/38
benzyl alcohol	202-859-9	15 - 40	100-51-6	X _n (Harmful)	R20/22
ethanolamine	205-483-3	10 - 30	141-43-5	C (Corrosive) X _n (Harmful)	R34, R36/37/38 R20/21/22

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

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

Inhalation: Harmful if inhaled. May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.
Skin contact: Harmful in contact with skin. May cause permanent damage.
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! Get medical attention immediately.
Skin contact: Immediately wash off with soap and plenty of water for at least 15 minutes. Get medical attention.
Eye contact: Immediately flush with water for at least 15 minutes. Get medical attention immediately.

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).

FORMULA X-TREME ULTRA HIGH PERFORMANCE STRIPPER

6. ACCIDENTAL RELEASE MEASURES

Put on appropriate personal protective equipment (see Section 8).

- 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 limits:

Component Name:	Source / Date	Value / Units	Type
ethylene glycol monobutyl ether	US (ACGIH) / 2005	20 ppm	8 HRS / TWA
ethylene glycol monobutyl ether	US (OSHA) / 2005	50 ppm SKIN	8 HRS / PEL TWA
ethanolamine	US (ACGIH) / 2005	3 ppm 7.5 mg/m3	8 HRS / TWA
ethanolamine	US (ACGIH) / 2005	6 ppm 15 mg/m3	15 min / STEL

Exposure controls: 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

Appearance : Clear liquid

Odor threshold: N/E

Melting point/Freezing Point: 0°C / 32°F

Flash point: 62°C (ASTM method D56)

Upper/lower flammability/explosive limits: N/E

Vapor density: Greater than air

Solubility: 100% soluble in water

Auto-ignition temperature: N/E

Viscosity: < 20 centipoise @ 20°C

Oxidizing properties: Not an oxidizer

Odor: Butyl odor

pH: 11.5

Initial boiling point/boiling range: 104°C / 220°F

Evaporation Rate: Less than water

Vapor pressure: Greater than water

Relative density: 0.98 kg/L @ 20°C

Partition coefficient (n-octanol/water): N/E

Decomposition temperature: N/E

Explosive Properties: N/E

VOC: 60% (as supplied), 2.8% (1:20), 1.9% (1:30), 1.43% (1:40)

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous Reactions: Adding water directly to the product may generate heat and cause product to splash. To avoid adverse reaction, always add product to water, do not add water to product.

Conditions to avoid: Improper order of dilution

Incompatible materials: Strong acids and oxidizing agents

Hazardous decomposition products: None known

11. TOXICOLOGICAL INFORMATION

PREPARATION SUMMARY – Toxicity testing has not been completed on the mixture.

FORMULA X-TREME ULTRA HIGH PERFORMANCE STRIPPER

LOCAL EFFECTS

Skin contact: Corrosive. Can cause burns.
Eye Contact: Corrosive. Can cause burns.
Sensitization: None known
Chronic effects: None known

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

COMPONENT SUMMARY *

ethylene glycol monobutyl ether CAS# 111-76-2

LD₅₀: (Oral, rat) 470 mg/kg – 1746 mg/kg

Potential Health Effects

Eye: May cause severe eye irritation.
Skin: May cause slight skin irritation with local redness. Repeated exposure may cause a burn.
Ingestion: Moderate toxicity if swallowed. Causes irritation to the gastrointestinal tract.
Inhalation: May cause irritation to upper respiratory tract (nose and throat).
Chronic: Prolonged or repeated exposure can cause damage to the liver, kidneys, lymphoid system, and blood and blood-forming organs.

Carcinogenicity: Not listed as a carcinogen.

ethanolamine CAS# 141-43-5

LD₅₀: (Oral, rat) 1090 mg/kg – 3320 mg/kg

Potential Health Effects

Eye: May cause severe irritation.
Skin: May cause skin burns.
Ingestion: Low toxicity if swallowed. May result in gastrointestinal irritation or ulceration.
Inhalation: Excessive exposure may cause irritation to upper respiratory tract (nose and throat).
Chronic: May cause liver and kidney damage.

Carcinogenicity: Not listed as a carcinogen.

benzyl alcohol CAS# 100-51-6

LD₅₀: (Oral, rat) 1230 mg/kg

Potential Health Effects

Eye: Causes severe eye irritation.
Skin: Causes skin irritation.
Ingestion: May be harmful if swallowed. May cause severe gastrointestinal tract irritation.
Inhalation: May cause irritation of the respiratory tract. Inhalation of high concentrations may cause central nervous system effects.
Chronic: Prolonged or repeated skin contact may cause dermatitis and de-fatting of the skin.

Carcinogenicity: Not listed as a carcinogen.

*Component data recorded from available sources pertaining to individual component CAS number.

12. ECOLOGICAL INFORMATION

PREPARATION SUMMARY – Ecological testing has not been completed on the mixture.

COMPONENT SUMMARY *

ethylene glycol monobutyl ether CAS# 111-76-2

96 hour LC50, bluegill (*Lepomis macrochirus*) 820 – 1490 mg/l

LC50, water flea (*Daphnia magna*) 835 mg/l

Environmental Fate: Material is readily biodegradable. Bioconcentration potential is low.

ethanolamine CAS# 141-43-5

96 hour LC50, fathead minnow (*Pimephales promelas*) 125 - 2070 mg/l

LC50, water flea (*Daphnia magna*) 33 - 93 mg/l

Environmental Fate: Material is readily biodegradable. Bioconcentration potential is low.

benzyl alcohol CAS# 100-51-6

48-96 hr fathead minnow 770 mg/l

EC50 48hr *Daphnia magna* 400 mg/l

Environmental Fate: Material is readily biodegradable and not likely to bioaccumulate.

*Component data recorded from available sources pertaining to individual component CAS number.

FORMULA X-TREME ULTRA HIGH PERFORMANCE STRIPPER

13. DISPOSAL CONSIDERATIONS

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: II

LAND-ROAD/RAILWAY

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

SEA

Proper shipping name: Corrosive liquid, n.o.s. mixture 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

EINECS Status: Ingredients are included in the EINECS inventories.

National Regulations: No additional national regulations are known to the supplier.

16. OTHER INFORMATION

Product intended for commercial and industrial use only.

(Risk) R phrases:

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 R34- Causes burns.
 R35- Causes severe burns.
 R36/37/38- Irritating to eyes, respiratory system and skin.

Abbreviations used:

N/E = Not Established
 N/A = Not Applicable
 N/L = Not Listed

Revised by:

Chemical/ R&D Department
 Amano Pioneer Eclipse Corporation

Revision Information:

09/06/2011 – Section 14 (Packing group and Ltd Qty volume)
 08/23/2011 – Section 4 (first aid), Section 9 (pH, density, viscosity, VOC), Section 14 (Ltd Qty), Section 16(usage statement)
 04/01/2011 – revision to Section 12
 09/27/2010 – correction to emergency phone number
 06/30/2010 – Issue of MSDS (conforming to 1907/2006/EC amendment 453/2010)