

ENVIROSTAR GREEN LOW ODOR STRIPPER

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

Product Name: EnviroStar Green Low Odor Stripper
Product Use: Floor coating remover concentrate

Product Number: 515

Manufacturer Address:
 Amano Pioneer Eclipse Corp.
 P.O. Box 909
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 Sparta, NC 28675 USA

Contact Information:
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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: Classified as Corrosive

Hazard symbol:



Risk phrases: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 R34- Causes burns.
 R36/37/38- Irritating 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).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	EC No.	Weight %	CAS No.	Symbol	R-phrases *
Benzyl alcohol	202-859-9	10 – 30	100-51-6	Xn (Harmful)	R20/22
Ethanolamine	205-483-3	1 – 5	141-43-5	Xn (Harmful) C (Corrosive)	R20/21/22 R34
(2-methoxymethylethoxy)-propanol	252-140-2	1 – 5	34590-94-8	None	None

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

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

Inhalation: May be harmful if inhaled. May cause headache, nausea and irritation to nose, throat and respiratory tract.
Ingestion: Harmful if swallowed.
Skin contact: Harmful in contact with skin. May cause permanent damage.
Eye contact: Harmful in contact with eyes. May cause permanent damage.

FIRST AID MEASURES

Inhalation: If breathing is difficult: Remove to fresh air. Seek medical attention immediately.
Ingestion: Call a physician or poison control center immediately. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Skin contact: Immediately wash off with plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) Seek medical attention.
Eye contact: Immediately wash out with water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Seek 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).

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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. Neutralize spill area. 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
ethanolamine	US (ACGIH) / 2010	7.5 mg/m ³ 3 ppm	TWA
ethanolamine	US (ACGIH) / 2010	15 mg/m ³ 6 ppm	STEL
(2-methoxymethylethoxy)-propanol	US (ACGIH) / 2010	606 mg/m ³ 100 ppm	TWA Skin
(2-methoxymethylethoxy)-propanol	US (ACGIH) / 2010	909 mg/m ³ 150 ppm	STEL Skin
(2-methoxymethylethoxy)-propanol	EU (2000/39/EC) 2000	308 mg/m ³ 50 ppm	TWA Skin

Exposure controls: Ensure adequate general ventilation.

Environmental exposure controls: No specific environmental exposure controls required.

PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : clear, colorless liquid

Odor threshold: N/E

Melting point/Freezing Point: N/E

Flash point: > 93 °C

Upper/lower flammability/explosive limits: N/E

Vapor density: greater than air

Solubility: 100% soluble in water

Auto-ignition temperature: N/E

Viscosity: < 5 cps @ 20°C

Oxidizing properties: Not an oxidizer

Odour: slight, solvent odour

pH: 10.9

Initial boiling point/boiling range: 104 °C

Evaporation Rate: less than water

Vapor pressure: less than water

Relative density: 1.02 kg/L @ 20°C

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

Decomposition temperature: N/E

Explosive Properties: N/E

VOC: 9.77% (as supplied), 1.97% (1:4), 1.1% (1:8), 0.9% (1:10)

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous Reactions: None expected

Conditions to avoid: None known

Incompatible materials: Strong acids and oxidizing agents

Hazardous decomposition products: None known

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11. TOXICOLOGICAL INFORMATION

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

LOCAL EFFECTS

Skin contact: Corrosive. Can cause skin burns.
Eye Contact: Corrosive. Can cause eye burns.
Sensitization: None expected
Chronic effects: None expected

SPECIFIC EFFECTS

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

COMPONENT SUMMARY *

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.

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.

(2-methoxymethylethoxy)-propanol CAS# 34590-94-8

LD₅₀: (oral, rat) 5220 mg/kg

Potential Health Effects

Eye: May cause minor eye irritation.
Skin: Repeated or prolonged contact may cause slight skin irritation.
Ingestion: No significant symptoms expected.
Inhalation: No significant symptoms expected.
Chronic: Prolonged or repeated contact may cause dermatitis
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 *

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.

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.

(2-methoxymethylethoxy)-propanol CAS# 34590-94-8

LC50, 96 hr fathead minnow >10000 mg/l

EC50, 48hr Daphnia >5000 mg/l

Environmental Fate: This material is expected to be readily biodegradable and not expected to bioaccumulate.

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

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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: III

LAND-ROAD/RAILWAY

Proper shipping name:

Corrosive liquid, n.o.s. (ethanolamine)

ADR/RID class:

8

ADR/RID item number:

80

SEA

Proper shipping name:

Corrosive liquid, n.o.s. (ethanolamine)

IMDG class:

8

Medical First Aid Guide (MFAG):

730

Emergency Schedules (EmS):

Fire F-A, Spillage S-B

Marine Pollutant:

none

**NOTE: Package quantities <5L will be shipped according to the Limited Quantity Exception.

15. REGULATORY INFORMATION

EINECS Status:

Ingredients are included in the EINECS/ELINCS/NLP inventories.

NATIONAL REGULATIONS:

No additional national regulations are known to the supplier.

16. OTHER INFORMATION

R (Risk) phrases:

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

R34- Causes burns.

R36/37/38- Irritating to eyes, respiratory system and skin.

S (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.

Abbreviations:

N/A = Not Applicable

N/E = Not Established

N/L = Not Listed

Issued by:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation

Revision Information:

07/14/2011 – revision to classification, addition of VOC, addition of transportation information, general/minor typographical corrections

04/01/2011 – revisions conforming to 1907/2006/EC amendment 453/2010

01/11/2010 – revisions conforming to 1907/2006/EC