

ECLIPSE d-LIMONENE DEGREASER

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

Product Name: Eclipse d-Limonene Degreaser **Product Number:** 314
Product Use: Water based degreaser concentrate

Manufacturer Address:
 Amano Pioneer Eclipse Corp.
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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
Danger symbol:



Risk phrases:
 R22- Harmful if swallowed.
 R35- Causes severe burns.
 R36/37/38- Irritating to eyes, respiratory system and skin.
 R41- Risk of serious damage to eyes.
 R43- May cause sensitisation by skin contact.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:
 S1/2- Keep locked up and out of the reach of children.
 S24/25- Avoid contact with skin and eyes.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)
 S60- This material and its container must be disposed of as hazardous waste.
 S61- Avoid release to the environment. Refer to special instructions/Safety Data sheets.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous Ingredients	EC No.	Weight %	CAS No.	Symbol	R-phrases *
sodium carbonate	207-838-8	1 – 5	497-19-8	Xi (Irritant)	R36
tetrasodium ethylene diamine tetracetate	200-573-9	1 – 5	64-02-8	Xn (Harmful) Xi (Irritant)	R22 R41
disodium metasilicate	229-912-9	1 – 5	6834-92-0	C (Corrosive) Xi (Irritant)	R34 R37
d-limonene	227-813-5	0.1 – 1.0	5989-27-5	Xi (Irritant) N (Dangerous for the Environment)	R10 R38 R43 R50/53

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

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: Harmful if swallowed. May cause burns to mouth, throat and stomach.
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 directing 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 immediately.
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).

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: None
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: thin orange liquid	Odor: citrus
Odor threshold: N/E	pH: 12.5 ± 0.5
Melting point/Freezing Point: N/E	Initial boiling point/boiling range: 100°C
Flash point: > 93°C	Evaporation Rate: N/E
Upper/lower flammability/explosive limits: N/E	Vapor pressure: greater than water
Vapor density: N/E	Relative density: 1.06 kg/L @ 20°C
Solubility: 100% soluble in water	Partition coefficient (n-octanol/water): N/E
Auto-ignition temperature: N/E	Decomposition temperature: N/E
Viscosity: < 10 cps @ 20°C	Explosive Properties: N/E
Oxidizing properties: Not an oxidizer	Other information: N/A

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.

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 *

sodium carbonate CAS# 497-19-8

LD₅₀: (oral, rat) 5000 mg/kg

Potential Health Effects

Eye: Causes irritation of the eyes.
Skin: Continuous contact may cause skin irritation.
Ingestion: May be harmful if swallowed. Symptoms may include nausea and vomiting.
Inhalation: May irritate the mucous membranes and upper respiratory tract.
Chronic: No data available.
Carcinogenicity: Not listed as a carcinogen.

tetrasodium ethylene diamine tetraacetate CAS# 64-02-8

LD₅₀: (oral, rat) 3030 mg/kg

Potential Health Effects

Eye: Causes irritation of the eyes.
Skin: Causes irritation of the skin. Skin contact may produce burns.
Ingestion: Harmful if swallowed. Large amounts may cause gastric upset.
Inhalation: Inhalation may produce irritation of respiratory tract.
Chronic: Repeated or prolonged exposure can produce target organ damage.
Carcinogenicity: Not listed as a carcinogen.

disodium metasilicate CAS# 6834-92-0

LD₅₀: (oral, rat) 1500-3200 mg/kg

Potential Health Effects

Eye: Corrosive. Causes eye burns
Skin: Corrosive. Causes skin burns.
Ingestion: Corrosive. Causes burns to mouth, esophagus, and stomach.
Inhalation: Dust corrosive to respiratory tract.
Chronic: No known chronic hazards
Carcinogenicity: Not listed as a carcinogen.

d- limonene CAS# 5989-27-5

LD₅₀: (oral, rat) 4400 mg/kg

Potential Health Effects

Eye: Causes eye irritation.
Skin: Causes skin irritation.
Ingestion: May cause digestive tract disturbances.
Inhalation: May cause respiratory tract irritation.
Chronic: No data available.
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 *

sodium carbonate CAS# 497-19-8

LC50, 96 hr Bluegill sunfish 300-320 mg/l

LC50, 96 hr Daphnia magna 265-565 mg/l

Environmental Fate: Inorganic substance. No significant toxicity to aquatic organisms is expected.

ECLIPSE d-LIMONENE DEGREASER

tetrasodium ethylene diamine tetraacetate CAS# 64-02-8

LC50, 96 hr Bluegill sunfish 490 mg/l

Environmental Fate: Not known

disodium metasilicate CAS# 6834-92-0

LC50, 96 hr Gambusia affinis 2320 ppm

LC50, 96 hr Daphnia magna 247 ppm

Environmental Fate: This material is not persistent in aquatic systems. Not expected to bioconcentrate.

d- limonene CAS# 5989-27-5

LC50, 96 hr fathead minnow 702 mg/l (flow-through)

Environmental Fate: May cause long-term adverse effects on the environment.

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

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. (disodium trioxosilicate)

ADR/RID class: 8

ADR/RID item number: 80

SEA

Proper shipping name: Corrosive liquid, n.o.s. (disodium trioxosilicate)

IMDG class: 8

Medical First Aid Guide (MFAG): 730

Emergency Schedules (EmS): Fire F-A, Spillage S-B

Marine Pollutant: none

Package volumes < 5L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

15. REGULATORY INFORMATION

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

NATIONAL REGULATIONS

648/2004

The surfactants contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of the detergent manufacturer.

No additional national regulations are known to the supplier.

16. OTHER INFORMATION

Relevant R (Risk) phrases:

R10 - Flammable.

R22 - Harmful if swallowed.

R34 - Causes burns.

R35 - Causes severe burns.

R36/37 - Irritating to eyes and respiratory system.

R38 - Irritating to skin.

R41- Risk of serious damage to eyes.

R43 - May cause sensitization by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ECLIPSE d-LIMONENE DEGREASER

Relevant S (Safety) phrases:

S1/2 - Keep locked up and out of the reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

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. (Show the label where possible.)

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

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/Safety Data sheets.

Detergent/Cleaner labeling (648/2004):

<5% - anionic surfactant, Non-ionic surfactant, EDTA, perfumes

>0.01 <1% - d-Limonene allergenic fragrance.

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:

01/27/2012 – Section 14 (Limited Quantity, proper shipping name)

04/01/2011 – revisions conforming to 1907/2006/EC amendment 453/2010, corrections to Section 9 (pH, viscosity)