



SAFETY DATA SHEET

314: CONCENTRATE

Issued: May 27, 2016
Supersedes: July 2, 2015

ECLIPSE™ d-LIMONENE DEGREASER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Eclipse d-Limonene Degreaser **Product Number:** 314
Recommended Use: Non-Phosphate Heavy Duty Degreaser
Concentrate - dilute prior to use.
Product intended for commercial and industrial use only.
Uses Advised Against: Other than per labelled instructions

Manufacturer Address:

Amano Pioneer Eclipse Corporation
P.O. Box 909
1 Eclipse Road
Sparta, NC 28675
Telephone: 1-336-372-8080
Email: sds@pioneereclipse.com
Internet: www.pioneereclipse.com

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

Classification: Skin Corrosion - Category 1
Eye Damage - Category 1
Skin Sensitization - Category 1

Signal Word: DANGER

Pictogram:



Hazard Statements:

Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.

Precautionary Statements:

Do not breathe mist/vapours/spray.
Wash thoroughly after handling.
Wear protective gloves and eye protection.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician if you feel unwell.
Contaminated work clothing must not be allowed out of the workplace.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container according to local, regional and national regulations.

Other Hazards: None known

Supplemental Information: None known

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ECLIPSE™ d-LIMONENE DEGREASER**3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS Number	Weight % *
sodium carbonate	497-19-8	1 - 5
sodium metasilicate	6834-92-0	1 - 5
d-Limonene	5989-27-5	0.1 - 0.2

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES**DESCRIPTION OF FIRST AID MEASURES**

Eye Contact: In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Seek medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.

Inhalation: If breathing is difficult. Remove subject to fresh air. Seek medical attention immediately.

Ingestion: Call a physician or poison control center. Do not induce vomiting. Seek medical advice immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Causes eye burns.

Skin Contact: Causes skin burns.

Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract.

Ingestion: May cause burns to mouth, throat and stomach.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: Water spray, CO₂, dry chemical, alcohol-type or universal type foams

Specific Hazards: Corrosive liquid. (See Sections 8 and 10.) Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing.

Protective Equipment and Precautions: Fire fighters should wear NIOSH approved breathing apparatus. Materials can splatter above 100° C / 212° F

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery: use care to avoid falling.

Environment Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

CONTAINMENT AND CLEAN-UP

Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.

Large Spills: 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.

Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Remove and wash contaminated clothing and footwear before re-use.

Conditions for Safe Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F)

Other Information: Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: None

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists.

Skin Protection: Chemical resistant gloves are recommended.

Respiratory Protection: No personal protective equipment required with normal use. General room ventilation should be adequate.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: thin, orange liquid

Odor: citrus

Odor Threshold: data not available

pH: 12.5

Freezing Point: data not available

Boiling Point: data not available

Flash Point: >200°F / >93°C

Evaporation Rate: less than water

Flammability (solid/gas): not applicable to liquids

Flammability limits: data not available

Vapor Pressure: data not available

Vapor Density: data not available

Relative Density: 8.8 lb/gal @ 68°F / 1.06 kg/l @ 20°C

Solubility: miscible in water

Partition Coefficient: data not available

Auto Ignition temperature: data not available

Decomposition Temperature: data not available

Viscosity: < 5 centipoise @ 68°F (20°C)

VOC: 0.16% (as supplied), 0.01% (1:16 & 1:32), <0.01% (1:64 & 1:128)

10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

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. Do not mix with other chemicals unless stated on the product label.

Hazardous decomposition products: carbon monoxide, carbon dioxide and nitrogen oxides

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

LOCAL EFFECTS

Skin contact: Corrosive

Eye contact: Corrosive

Sensitization: May cause allergic reaction.

Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known

Reproductive effects: None known

Teratogenicity: None known

Mutagenicity: None known



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COMPONENT INFORMATION

Component	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-Rat (mg/l)
sodium carbonate	4090	> 2000	1.5 (4 hr)
sodium metasilicate	1500	N/A	2.3 (2 hr)
d-limonene	4400	> 2000	not available

Carcinogenicity:

Component	IARC	NTP	OSHA
d-limonene	IARC 3	N/L	N/L

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

14: TRANSPORT INFORMATION

UN Number: UN1760
UN Proper Shipping Name: Corrosive liquid, n.o.s. (disodium trioxosilicate)
Hazard Class: 8
Packing Group: III
Marine Pollutant: None
Transport in Bulk: N/A
Other Information: Package volumes <5 L each are shipped as Limited Quantity; as permitted by hazard class and quantity exemption.

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING: Components not subject to US Reporting (SARA 302/304, 313, CERCLA)
STATE RIGHT-TO-KNOW STATUS: Components not subject to RTK Listing (MA, NJ, PA, RI)
CALIFORNIA PROPOSITION 65: Components are not present on CA Prop 65 listing.
CANADA REGULATIONS/REPORTING: This product has been classified in accordance with the hazard criteria of the Hazardous Product Regulation (*HPR*) and the SDS contains the information required by the *HPR*.

16: OTHER INFORMATION

Abbreviations Used:
N/A - Not applicable
N/E - Not Established
N/L - Not Listed
IARC 3- Unclassifiable as to carcinogenicity in humans

Revision Information:
May 27, 2016 - Logo change, email address, minor edits

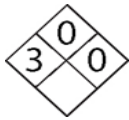


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Health: 3
Flammability: 0
Reactivity: 0

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This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****