



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2015/830

Issued: Mar. 9, 2018

ECLIPSE™ d-LIMONENE DEGREASER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

Product Name: Eclipse d-Limonene Degreaser

Product Number: 314L5

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Water-based degreaser concentrate

Uses Advised Against: Other than per labelled instructions.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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

1.4 EMERGENCY TELEPHONE NUMBER

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE (PREPARATION)

This mixture has been classified according to EC 1272/2008.

Skin Corrosion - Category 1A

Eye Damage - Category 1

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram(s):



Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary Statement(s):

P260 Do not breathe mist.

P280 Wear protective gloves, eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor/physician.

2.3 OTHER HAZARDS

EUH208 Contains Limonene . May produce an allergic reaction.

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ECLIPSE™ d-LIMONENE DEGREASER**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1/3.2 SUBSTANCES/MIXTURES**

Ingredient	EC No.	Weight %	CAS No.	REACH No.	CLP Classification	
					Hazard Class	Hazard Statement(s)*
sodium carbonate	207-838-8	1 - 5	497-19-8	01- 2119485498- 19	EyeIrrit 2	H319
Alcohols, C9-11, ethoxylated	614-482-0	1 - 5	68439-46-3	Exempted Polymer	AcuteTox4 EyeDam1	H302 H318
Disodium dioxido(oxo)silane pentahydrate	229-912-9	1 - 5	10213-79-3	01- 2119449811 37	SkinCorr1B STOT SE 3	H314 H335
Alkane C6-8 (even numbered), 1-sulphonic acid, sodium salt	939-625-7	1 - 5	2832-45-3		AcuteTox4 SkinIrrit2 EyeIrrit2	H302 H315 H319

See section 16 for the full text of Hazard Statements*SECTION 4: FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST AID MEASURES**

- 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.
- Skin Contact:** Immediately wash with plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) Seek medical attention immediately.
- 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.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** Can cause serious eye damage. Redness.
- Skin Contact:** Can cause severe skin burns. Redness.
- Inhalation:** None under normal use. Overexposure to vapours may result in irritation to the respiratory tract.
- Ingestion:** May cause irritation of the linings of the mouth, throat and gastrointestinal tract.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of any doubt or when irritation occurs or persists see medical advice.

SECTION 5: FIRE FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA**

All known extinguishants can be used.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

This product itself does not maintain combustion.

5.3 ADVICE FOR FIRE FIGHTERS

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection. Fire-fighters should wear clothing conforming to EN469 for chemical incidents. Materials can splatter above 100°C/212°F. Corrosive material.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Material spill on hard surfaces can present a serious slip/fall hazard.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep spills and cleaning runoff out of sewers and open bodies of water.

**ECLIPSE™ d-LIMONENE DEGREASER****6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

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: 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.

6.4 REFERENCE TO OTHER SECTIONS:

Refer to Section 8 of the SDS - Personal precautions

Refer to Section 7 of the SDS - Precautions in handling and storage

Refer to Section 13 of the SDS - Waste disposal recommendations

SECTION 7: HANDLING AND STORAGE**7.1 PRECAUTIONS FOR SAFE HANDLING**

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use in well-ventilated areas. Avoid breathing vapours or spray mists. Remove and wash contaminated clothing and footwear before re-use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

7.3 SPECIFIC END USE(S): No information available**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 CONTROL PARAMETERS**

Product does not contain substances with occupational exposure limits.

8.2 EXPOSURE CONTROLS

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.

Environmental exposure controls: No specific environmental exposure controls known.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended to avoid chemical splashes and mists.
Safety glasses or goggles (EN166).

Hand Protection: Chemical resistant gloves are recommended. (EN374).
Long-term or submersion protection - Use nitrile gloves (≥ 0.31 mm thickness) for a breakthrough time up to 480 minutes.
Short-term (≤ 30 minutes) or splash protection - Use nitrile gloves (≥ 0.12 mm thickness) for a breakthrough time of at least 30 minutes.
Protective gloves should be selected according to the application and duration of use. Workplace selection should take into consideration handling requirements, physical requirements and exposure to other substances.

Respiratory Protection: Respiratory protection not necessary with normal use of the product. Respiratory protection should be worn when there is a potential of inadequate ventilation.

Other information: Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: dark red liquid
Odor: lemon
Odor Threshold: No test data available
pH: 12 - 13

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Freezing Point:	No test data available
Initial boiling point/boiling range:	No test data available
Flash Point:	No test data available
Evaporation Rate:	No test data available
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability/explosive limits:	No test data available
Vapor Pressure:	No test data available
Vapor Density:	No test data available
Relative Density:	1.06 g/cm ³
Solubility:	miscible in water
Partition Coefficient (n-octanol/water):	No test data available
Auto Ignition temperature:	No test data available
Decomposition Temperature:	No test data available
Viscosity:	< 10 mPa.s
Explosive Properties:	No test data available
Oxidizing properties:	No test data available

9.2 OTHER INFORMATION

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:	Stable under normal conditions. Reacts exothermically with acids; release of heat.
10.2 CHEMICAL STABILITY:	Stable under normal conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal conditions. Reacts exothermically with acids; release of heat.
10.4 CONDITIONS TO AVOID:	None under normal conditions.
10.5 INCOMPATIBLE MATERIALS:	None under normal conditions. Acids.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

ACUTE TOXICITY: Toxicity testing has not been completed on the mixture.
Based on criteria 3.1.3 from (EC) 1272/2008, the classification criteria are not met and this product is not toxic. Toxic components are mentioned in section 3.

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-Rat (mg/l)
sodium carbonate	497-19-8	4090	rabbit, > 2000	2300 mg/m ³
Disodium dioxido(oxo)silane pentahydrate	10213-79-3	1152 - 1349	rat, > 5000	data not available
Alkane C6-8 (even numbered), 1-sulphonic acid, sodium salt	2832-45-3	1550 -5000	rat, 2000	data not available

SKIN CORROSION/IRRITATION: Classified as Skin Corrosive - Category 1
Causes severe skin burns.

SERIOUS EYE DAMAGE/IRRITATION: Classified as Eye Damage - Category 1
Causes serious eye damage.

RESPIRATORY OR SKIN SENSITIZATION: Based on available data, the classification criteria are not met.

GERM CELL MUTAGENICITY: Based on available data, the classification criteria are not met.

CARCINOGENICITY: Based on available data, the classification criteria are not met.

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- REPRODUCTIVE TOXICITY:** Based on available data, the classification criteria are not met.
- STOT-SINGLE EXPOSURE:** Based on available data, the classification criteria are not met.
- STOT-REPEATED EXPOSURE:** Based on available data, the classification criteria are not met.
- ASPIRATION HAZARD:** Based on available data, the classification criteria are not met.

11.2 POTENTIAL ADVERSE HEALTH EFFECTS

Effects and symptoms related to this mixture, if any, are listed in Section 4.2.

12. ECOLOGICAL INFORMATION**12.1 TOXICITY:**

Ecological testing has not been completed on the mixture. Based on criteria 4.1.3 of (EC) 1272/2008 this product is not dangerous to the environment. Components that are dangerous to the environment are mentioned below.

Component	CAS #	LC50 - 96 hr	LC/EC50 - 48 hr	EC50 - 72 hr
sodium carbonate	497-19-8	fish, > 300 mg/ml	Daphnia, > 200 mg/l	other, 265 mg/l
alcohols, C9-C11, ethoxylated	68439-46-3	fish, 5 - 7 mg/ml	Daphnia, 5.3 mg/l	algae, 1.4 - 4.7 mg/l
disodium dioxido(oxo)silane pentahydrate	10213-79-3	fish, 210 mg/l	Daphnia, > 500mg/l	algae, 207 mg/l
alkane C-8, 1-sulphonic acid, sodium salt	2832-45-3	fish, 100 mg/ml	Daphnia, 147.4 - 421 mg/l	algae, 100 mg/l

12.2 PERSISTENCE AND DEGRADABILITY:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as 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 a detergent manufacturer.

Component	CAS #	Biodegradation
alkane C-8, 1-sulphonic acid, sodium salt	2832-45-3	readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL:

Component	CAS #	Partition coefficient n-octanol/water (Log Kow)	Bioaccumulative potential
sodium carbonate	497-19-8	-6.19	No bioaccumulation
alkane C-8, 1-sulphonic acid, sodium salt	2832-45-3	-0.7	no data available

12.4 MOBILITY IN SOIL: No data available.**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable**12.6 OTHER ADVERSE EFFECTS:** No data available.**12.7 ADDITIONAL INFORMATION:** No data available.**13. DISPOSAL CONSIDERATIONS****13.1 WASTE TREATMENT METHODS**

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

EU Waste Catalogue: 20 01 29* - detergents containing dangerous substances

14. TRANSPORT INFORMATION

- 14.1 UN NUMBER:** Product is not classified as hazardous for transport regulations.
- 14.2 UN PROPER SHIPPING NAME:** None
- 14.3 TRANSPORT HAZARD CLASSES:** None
- 14.4 PACKING GROUP:** None

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- 14.5 **ENVIRONMENTAL HAZARDS:** None
- 14.6 **SPECIAL PRECAUTIONS:** None
- 14.7 **TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE:** N/A

15. REGULATORY INFORMATION**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE:**

Contains no substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Detergent Regulation: Labeling of contents

Component	%
anionic surfactants, non-ionic surfactants	< 5%
perfumes	
Limonene	
Citral	

15.2 CHEMICAL SAFETY ASSESSMENT:

No chemical safety assessment has been carried out.

16. OTHER INFORMATION**REVISION INFORMATION:**

Mar. 9, 2018 - SDS issue

ABBREVIATIONS:

N/A - Not applicable
N/E - Not Established
N/L - Not Listed

FULL TEXT OF HAZARD STATEMENTS:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation