



SAFETY DATA SHEET

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

Issued: 20 Jan 2021

Supersedes: 02 Sept 2020

ECLIPSE™ HD DEGREASER

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

1.1 PRODUCT IDENTIFIER

Product Name: Eclipse HD Degreaser Product Number: 396L5

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.
Intended Use: Water-based heavy duty 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 1
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, protective clothing, 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 or shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 POISON CENTER or doctor.

2.3 OTHER HAZARDS No other hazards are known to the supplier



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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)*
2-butoxyethanol	203-905-0	5 - < 10	111-76-2	01- 2119475108- 36	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
sodium carbonate	207-838-8	1 - < 5	497-19-8	01- 2119485498- 19	Eye Irrit 2	H319
alcohols, C9-11, ethoxylated		1 - < 5	68439-46-3	polymer exempted	Acute Tox 4 Eye Dam 1	H302 H318
disodium dioxido(oxo)silane pentahydrate	229-912-9	1 - < 5	10213-79-3	01- 2119449811- 37	Skin Corr 1B STOT SE3	H314 H335
sodium cumenesulfonate	239-854-6	1 - < 5	15763-76-5	01- 2119489411- 37	Eye Irrit 2	H319
potassium 4-isopropylbenzenesulphonate	629-764-9	1 - < 5	164524-02-1	01- 2119489427- 24	Eye Irrit 2	H319
sodium hydroxide	215-185-5	1 - < 5	1310-73-2	01- 2119457892- 27	Met Corr 1 Skin Corr 1A	H290 H314
2-ethanolamine 2-dodecylbenzenesulfonate	248-024-2	1 - < 5	26836-07-7	ionic mixture	Skin Irrit 2 Eye Dam 1 AquaChron 3	H315 H318 H412
2-aminoethanol	205-483-3	< 0.1	141-43-5	01- 2119486455- 28	Acute Tox 4 Skin Corr 1B Eye Dam 1 AquaChron3	H302,H312,H332 H314 H318 H412

*See section 16 for the full text of Hazard Statements

Ingredient	EC No.	CAS No.	Specific Concentration Limits
sodium hydroxide	215-185-5	1310-73-2	(0.5 ≤ C < 2) Eye Irrit 2 (H319), Skin Irrit 2 (H315) (2 ≤ C < 5) Skin Corr 1B (H314) (5 ≤ C < 100) Skin Corr 1A (H314)
2-aminoethanol	205-483-3	141-43-5	(5 ≤ C ≤ 100) STOT SE 3, H335

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

Skin Contact: Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

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

Ingestion: Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Seek medical advice immediately.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Causes serious eye damage,

Skin Contact: Causes severe skin burns.

Inhalation: May cause 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 seek medical advice. If medical advice is needed, have product container or label at hand.



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SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

All known extinguishants can be used.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

The 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. Use fire fighting measures that suit the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Refer to Section 8 for appropriate personal protective equipment.

Material spilled on hard surface can present a serious slipping/falling hazard.

6.2 ENVIRONMENTAL PRECAUTIONS

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

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: 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.

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 only 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. Store in original container.

7.3 SPECIFIC END USE(S): No information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
2-butoxyethanol (CAS# 111-76-2)	ACGIH TLV	20	97	-	-	BEI
	DE (TRGS 900)	-	-	10	49	H,Y, AGS
	DK - At-Vejledning Stoffer og materialier- C.0.1	20	98	-	-	EH
	EU (2000/39/EC)	20	98	50	246	Skin
	NO - Forskrift, best.nr. 704	-	-	10	50	H
	EH40	25	123	50	246	Sk, BMGV



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Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
sodium hydroxide (CAS# 1310-73-2)	ACGIH TLV	-	-	-	2	Ceiling
	DK - At-Vejledning Stoffer og materialier- C.0.1	-	-	-	2	L
	EU (2000/39/EC)	-	-	-	2	T
	NO – Forskrift, best.nr. 704	-	-	-	2	T
	EH40	-	-	-	2	

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
2-aminoethanol (CAS# 141-43-5)	ACGIH TLV	3	7.5	6	15	-
	DE (TRGS 900)	-	-	2	5.1	H,Y,Sh
	DK - At-Vejledning Stoffer og materialier- C.0.1	1	2.5	-	-	H
	EU (2006/15/EC)	1	2.5	3	7.6	Skin
	NL - Grensuarde TGG	-	2.5	-	7.6	H
	NO Administrative Norm	1	2.5	-	-	H
	EH40	1	2.5	3	7.6	Skin

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: Wear eye protection
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:	clear, dark violet liquid
Odor:	perfumed
Odor Threshold:	No test data available
pH:	12 - 14
Freezing Point:	< -10 °C
Initial boiling point/boiling range:	100 °C
Flash Point:	> 70°C
Evaporation Rate:	0.238 (butylacetate = 1)
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability/explosive limits:	No test data available
Vapor Pressure:	23.39 hPa
Vapor Density:	No test data available



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Relative Density: 1.064 g/cm³
 Solubility: miscible in water
 Partition Coefficient (n-octanol/water): - 0.61 (calculated value)
 Auto Ignition temperature: No test data available
 Decomposition Temperature: No test data available
 Viscosity: < 10 mPa.s
 Explosive Properties: none
 Oxidizing properties: none

9.2 OTHER INFORMATION

VOC: 5.44%

SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY:** 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:** Do not mix with other chemicals unless stated on the product label.
- 10.5 INCOMPATIBLE MATERIALS:** 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 available data, the classification criteria are not met.

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-Rat
2-butoxyethanol	111-76-2	1300	>2000	guinea pig (1hr), >3.1 mg/L
sodium carbonate	497-19-8	2800	> 2000	(2hr), 2.3 mg/L
Disodium dioxido(oxo)silane pentahydrate	10213-79-3	1152 - 1349	rat, > 5000	data not available
potassium 4-isopropylbenzenesulphonate	164524-02-1	> 2000	2000	> 5mg/L 232 min
sodium cumenesulfonate	15763-76-5	> 2000	2000	> 5mg/L 232 min
sodium hydroxide	1310-73-2	> 191	data not available	data not available
2-ethanolamine 2-dodecylbenzenesulphonate	26836-07-7	> 5000	> 4400	data not available
2-aminoethanol	141-43-5	1720	1500	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.
- 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 EXPSURE:** Based on available data, the classification criteria are not met.
- ASPIRATION HAZARD:** Based on available data, the classification criteria are not met.



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11.2 POTENTIAL ADVERSE HEALTH EFFECTS

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

SECTION 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 - fish	LC/EC50 - Daphnia	EC50 - algae
2-butoxyethanol	111-76-2	1474 mg/ml	1550 mg/l	911 mg/l
sodium carbonate	497-19-8	> 300 mg/ml	> 200 mg/l	data not available
alcohols, C9-C11, ethoxylated	68439-46-3	5-7 mg/l	5.3 mg/l	1.4 - 4.7 mg/l
Disodium dioxido(oxo)silane pentahydrate	10213-79-3	210 mg/l	> 500 mg/l	207 mg/l
potassium 4-isopropylbenzenesulphonate	164524-02-1	> 100 mg/ml	1000 mg/l	230 mg/l
sodium cumenesulfonate	15763-76-5	> 100 mg/ml	1000 mg/l	230 mg/l
sodium hydroxide	1310-73-2	35 mg/l	40.4 mg/l	data not available
2-ethanolamine 2-dodecylbenzenesulfonate	26836-07-7	1 mg/l	12.2 - 17 mg/l	data not available
2-aminoethanol	141-43-5	349 mg/l	65 mg/l	15 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
2-butoxyethanol	111-76-2	readily biodegradable
sodium carbonate	497-19-8	inorganic substance
alcohols, C9-C11, ethoxylated	68439-46-3	readily biodegradable
potassium 4-isopropylbenzenesulphonate	164524-02-1	readily biodegradable
sodium cumenesulfonate	15763-76-5	readily biodegradable
2-aminoethanol	141-43-5	> 90% readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL:

Product / Component	CAS #	Partition coefficient n-octanol/water
Eclipse HD Degreaser	mixture	-0.61 (calculated)
2-butoxyethanol	111-76-2	0.81
sodium carbonate	497-19-8	-6.19
alcohols, C9-C11, ethoxylated	68439-46-3	3.3 - 4.8
Disodium dioxido(oxo)silane pentahydrate	10213-79-3	< 3 n-octanol: insoluble
potassium 4-isopropylbenzenesulphonate	164524-02-1	-1.1
sodium cumenesulfonate	15763-76-5	-1.1
sodium hydroxide	1310-73-2	-3.88
2-ethanolamine 2-dodecylbenzenesulfonate	26836-07-7	6.11
2-aminoethanol	141-43-5	-2.3 - -1.31

12.4 MOBILITY IN SOIL: Testing has not been completed on the mixture. No data available.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

Eclipse HD Degreaser	This mixture does not meet the PBT criteria of REACH regulation, Annex XIII. This mixture does not meet vPvB criteria of REACH regulation, Annex XIII.
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12.6 OTHER ADVERSE EFFECTS: No data available.

12.7 ADDITIONAL INFORMATION: Based on available data, the classification criteria are not met.



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SECTION 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

SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER: UN1760

14.2 UN PROPER SHIPPING NAME: Corrosive liquid, n.o.s. (disodium trioxosilicate)

14.3 TRANSPORT HAZARD CLASSES: 8

14.4 PACKING GROUP: II

14.5 ENVIRONMENTAL HAZARDS: N/A

14.6 SPECIAL PRECAUTIONS:

Package volumes ≤ 1 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

IMDG

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

Stowage and Segregation: Category B.

Marine Pollutant: None

ADR/RID

Class: 8

Item Number: 80

Classification Code: C9

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE: N/A

SECTION 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

Contains no substance subject to EU 649/2012

Contains no substance subject to EU 2019/1021

Detergent Regulation: Labeling of contents

Component	%
anionic surfactants, non-ionic surfactants	< 5%
perfumes	
Linalool	

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

20 Jan 2021 - Revision § 2, 7 & 16

ABBREVIATIONS:

N/A - Not applicable

N/E - Not Established

N/L - Not Listed



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FULL TEXT OF HAZARD STATEMENTS:

- H290 Corrosive to metals.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects

FULL TEXT OF PRECAUTIONARY STATEMENTS:

- P234 Keep only in original packaging.
- P264 Wash thoroughly after handling.
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.
- 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