



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2020/878

Issued: 6 Mar 2024

Supersedes: 2 Nov 2022

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
UFI: F32D-04SA-P101-RS14

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

This mixture has been classified according to EC 1272/2008.
Classification: Skin Corrosion - Category 1
Eye Damage - Category 1

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram:

Contains: Sodium metasilicate, Sodium hydroxide, C9-11 Pareth-6, Ethanolamine dodecylbenzenesulfonate

Hazard Statements:

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Precautionary Statements:

P260 Do not breathe mist.
P280 Wear protective gloves, eye protection, face 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 ATE**
2-Butoxyethanol	203-905-0	111-76-2	ATE (oral) 1200 mg/kg
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

** Acute Toxicity Estimate per Annex VI, (EC) 1272/2008.

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.



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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.

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. Corrosive material. Use fire fighting measures that suit the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

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 - Grensuaarde 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

Physical state:	Liquid
Colour:	Clear, dark violet
Odour:	Perfumed
Melting point/Freezing point:	< -10 °C
Boiling point/Boiling range:	100 °C
Flammability:	Does not maintain combustion.
Lower and upper explosion limits:	No test data available
Flash Point:	> 70°C
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
pH:	12 - 14

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Kinematic viscosity:	< 10 mm ² /s
Solubility:	Water, completely soluble
Partition coefficient n-octanol/water [log Pow]:	-0.61 (calculated value)
Vapor pressure:	No test data available
Density:	0.99 g/cm ³
Relative vapor density:	No test data available
Particle characteristics:	Not applicable to liquids

9.2 OTHER INFORMATION**9.2.1 - Information with regard to physical hazard class:**

Oxidising properties:	Not established
Explosive properties:	Not established

9.2.2 - Other safety characteristics:

Relative evaporation rate (butylacetate=1):	< 1
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 HAZARD CLASSES AS DEFINED BY REGULATION (EC) 1272/2008****ACUTE TOXICITY:** Toxicity testing has not been completed on the mixture.

ATE _{mix} (oral):	> 2000 mg/kg
ATE _{mix} (dermal):	> 2000 mg/kg
ATE _{mix} (inhalation):	> 20 mg/l (4 hr/vapour)

Based on criteria 3.1.3 from (EC) 1272/2008, Acute Toxicity classification criteria are not met.
Components details are given below:

Component	CAS #	LD50 Oral	LD50 Dermal	LC50 Inhalation (Dust/Mist)
2-Butoxyethanol	111-76-2	ATE = 1200 mg/kg	> 2000 mg/kg	data not available
Sodium carbonate	497-19-8	2800 mg/kg	> 2000 mg/kg	2.3 mg/L (2hr)
Disodium dioxido(oxo)silane pentahydrate	10213-79-3	1152 - 1349 mg/kg	> 5000 mg/kg	data not available
Potassium 4-isopropylbenzenesulphonate	164524-02-1	> 2000 mg/kg	2000 mg/kg	> 5mg/L (232 min)
Sodium cumenesulfonate	15763-76-5	> 2000 mg/kg	2000 mg/kg	> 5mg/L (232 min)
Sodium hydroxide	1310-73-2	> 191 mg/kg	data not available	data not available
2-Ethanolamine 2-dodecylbenzenesulphonate	26836-07-7	> 5000 mg/kg	> 4400 mg/kg	data not available
2-Aminoethanol	141-43-5	1720 mg/kg	1500 mg/kg	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.



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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.

11.2 INFORMATION ON OTHER HAZARDS

11.2.1 Endocrine disrupting properties:	None known
11.2.2 Other information:	No additional information available

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY: Ecological testing has not been completed on the mixture.
According to the criteria of 4.1.3 from (EC) 1272/2008 this product is not dangerous for the environment.
Components details are given below:

Component	CAS #	LC50 fish (96 h)	EC50 Daphnia (48 h)	EC50 algae (72 h)
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	2.5 mg/l

12.2 PERSISTANCE 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 (Log Pow)
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

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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.**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 ENDOCRINE DISRUPTING PROPERTIES: None known**12.7 OTHER ADVERSE EFFECTS:** No additional information available.**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:** III**14.5 ENVIRONMENTAL HAZARDS:** N/A**14.6 SPECIAL PRECAUTIONS:**

Package volumes ≤ 5 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 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS Product is not transported in bulk.**SECTION 15: REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE**

Does not contain substances or labelled product uses subject to REACH Annex XVII restriction.

See Annex XVII of Regulation (EC) 1907/2006 for Designation of the substances and Conditions of restriction.

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.



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Detergent Regulation: 648/2004

Labeling of contents

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

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.

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

6 Mar 2024 - Revisions § 14, 16

ABBREVIATIONS:

ADR	European Agreement - International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS No.	Chemical Abstract Service Number
CLP	Classification Labeling Packaging Regulation (EC) 1272/2008
EC50	Median Effective Concentration.
EC No.	European Union Identification Number
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation, (EC) 1907/2006
RID	Regulations - International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TWA	Time Weighted Average
UFI	Unique Formula Identifier
UN	United Nations
VOC	Volatile Organic Compound
vPvB	Very Persistent and Very Bioaccumulative

CLASSIFICATION ACCORDING TO EC 1272/2008:

Classification and procedure used to derive the classification for mixture:		
Met. Corr. 1		Not classified. Weight of evidence.
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data

FULL TEXT OF HAZARD STATEMENTS:

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



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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

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