

ECLIPSE™ HD (HEAVY DUTY) DEGREASER**1. IDENTIFICATION OF THE MIXTURE (PREPARATION) AND OF THE COMPANY/UNDERTAKING****1.1 PRODUCT IDENTIFIER**

Product Name: Eclipse HD Heavy Duty Degreaser Product Number: 396

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**Manufacturer:**

Amano Pioneer Eclipse Corporation

P.O. Box 909

1 Eclipse Road

Sparta, NC 28675

Telephone: 1-336-372-8080

Email: msds@pioneer-eclipse.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)

2. HAZARDS IDENTIFICATION**2.1 CLASSIFICATION OF THE MIXTURE (PREPARATION)****2.1.1** This mixture has been classified according to EC 1272/2008.

CLP Classification: Skin Corrosion 1, Eye Damage 1

2.1.2 This preparation has been classified according to 1999/45/EC.

DPD Classification: Corrosive

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/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P310 Immediately call a POISON CENTER/doctor if you feel unwell.

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor.

P303+361+338 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 OTHER HAZARDS

No other hazards are known to the supplier

3. COMPOSITION/INFORMATION ON INGREDIENTS

ECLIPSE™ HD (HEAVY DUTY) DEGREASER
3.1/3.2 SUBSTANCES/MIXTURES

Ingredient	EC No.	Weight %	CAS No.	DSD Classification		CLP Classification	
				Symbol	Risk Phrase(s)*	Hazard Class	Hazard Statement(s)*
ethylene glycol monobutyl ether	203-905-0	3 - 7	111-76-2	Xn (Harmful) Xi (Irritant)	R20/21/22 R36/38	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
sodium carbonate	207-838-8	1 - 5	497-19-8	Xi (Irritant)	R36	Eye Irrit 2	H319
disodium metasilicate	229-912-9	1 - 5	6834-92-0	C (Corrosive) Xi (Irritant)	R34 R37	Skin Corr 1B STOT SE3	H314 H335
caustic soda	215-185-5	1 - 5	1310-73-2	Xi (Irritant)	R36/38	Skin Corr 1A	H314

*See section 16 for the full text of R phrases and Hazard Statements

4 FIRST AID MEASURES
4.1 DECIPTION 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:** Harmful in contact with eyes. May cause permanent damage.
- Skin Contact:** Harmful in contact with skin. May cause permanent damage.
- 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.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information available.

5. FIRE FIGHTING MEASURES
5.1 EXTINGUISHING MEDIA

Dry chemical, water spray, foam, carbon dioxide

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: None known

5.3 ADVICE FOR FIRE FIGHTERS

Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.
Special firefighting procedures: Corrosive material (See Sections 8 & 10)

6. ACCIDENTAL RELEASE MEASURES
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Refer to Section 8 for appropriate personal protective equipment.

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.

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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.

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.

7.3 SPECIFIC END USE(S): No information available

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	
ethylene glycol monobutyl ether (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

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m ³	ppm	mg/m ³	
caustic soda (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	

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.

Hand Protection: Chemical resistant gloves are recommended.

Skin Protection: If major exposure is possible, wear suitable protection such as rubber boots, apron, etc.

Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, dark purple, liquid
Odor: sassafras

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Odor Threshold:	N/E
pH:	12.5
Freezing Point:	N/E
Initial boiling point/boiling range:	N/E
Flash Point:	> 93°C
Evaporation Rate:	N/E
Upper/lower flammability/explosive limits:	N/E
Vapor Pressure:	N/E
Vapor Density:	N/E
Relative Density:	1.07 kg/L @ 20°C
Solubility:	miscible in water
Partition Coefficient (n-octanol/water):	N/E
Auto Ignition temperature:	N/E
Decomposition Temperature:	N/E
Viscosity:	<5 centipoise @ 20°C
Explosive Properties:	N/A
Oxidizing properties:	N/E

9.2 OTHER INFORMATION

VOC: 5%(as supplied), 1.04%(1:4), 0.58%(1:8), 0.16%(1:32), 0.08%(1:64)

10. STABILITY AND REACTIVITY

10.1 REACTIVITY:	None known
10.2 CHEMICAL STABILITY:	Stable under normal conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	Product may react strongly with water. Care should be used if diluting; product should be slowly added to water.
10.4 CONDITIONS TO AVOID:	None known
10.5 INCOMPATIBLE MATERIALS:	Strong acids, bases and oxidizing agents.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	None known

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 (mg/l)
ethylene glycol monobutyl ether	111-76-2	470 - 1746	Guinea pig, > 2000	guinea pig (1hr), >3.1 mg/l
sodium carbonate	497-19-8	4090	rabbit, > 2000	(4hr) - 1.15 mg/l
disodium metasilicate	6834-92-0	995 - 1335	rabbit, > 5000	(4hr) >2.06 mg/l
caustic soda	1310-73-2	220	rabbit, 1350	Not available

SKIN CORROSION/IRRITATION:	Classified as Skin Corrosive - Category 1
SERIOUS EYE DAMAGE/IRRITATION:	Classified as Eye Damage - Category 1
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.

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

12. ECOLOGICAL INFORMATION

12.1 TOXICITY: Ecological testing has not been completed on the mixture.

Component	CAS #	LC50 - 96 hr	LC/EC50 - 48 hr	EC50 - 72 hr
ethylene glycol monobutyl ether	111-76-2	vertebrate, 820-1490 mg/ml	vertebrate, 820-1490 mg/ml	algae, 911 mg/l
sodium carbonate	497-19-8	vertebrate, 300 mg/l	Daphnia magna, 265 mg/l	algae, 242 mg/l
disodium metasilicate	6834-92-0	vertebrate, 210 mg/l	Daphnia magna, 216 mg/l	algae, 207 mg/l
caustic soda	1310-73-2	vertebrate, 25 ppm	Daphnia magna, 100 ppm	not available

12.2 PERSISTENCE AND DEGRADABILITY: No data available.

Component	CAS #	Biodegradation
ethylene glycol monobutyl ether	111-76-2	readily biodegradable
sodium carbonate	497-19-8	inorganic substance
disodium metasilicate	6834-92-0	inorganic substance
caustic soda	1310-73-2	inorganic substance

12.3 BIOACCUMULATIVE POTENTIAL: No data available.

Component	CAS #	Partition coefficient n-octanol/water (Kow)	Bioconcentration factor (BCF)
ethylene glycol monobutyl ether	111-76-2	0.81	< 100
sodium carbonate	497-19-8	not available	not available
disodium metasilicate	6834-92-0	not available	not available
caustic soda	1310-73-2	not available	not available

12.4 MOBILITY IN SOIL: No data available.

Component	CAS #	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
ethylene glycol monobutyl ether	111-76-2	67
sodium carbonate	497-19-8	not available
disodium metasilicate	6834-92-0	not available
caustic soda	1310-73-2	not available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: No data available.

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*

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

ECLIPSE™ HD (HEAVY DUTY) DEGREASER**14.6 SPECIAL PRECAUTIONS FOR USER:**

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. Clear of living quarters.
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**15. REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE**

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.

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.**16: OTHER INFORMATION****REVISION INFORMATION:**

May 27, 2015 Revisions required per EC 1272/2008

ABBREVIATIONS:

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

DETERGENT/CLEANER LABELING (EC/648/2004):

<5% - anionic surfactant, Non-ionic surfactant, EDTA, and perfume

FULL TEXT OF HAZARD STATEMENTS:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see ... on this label).
P337+313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

FULL TEXT OF RISK PHRASES:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

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- R34 Causes burns.
- R35 Causes severe burns.
- R36/37 Irritating to eyes and respiratory system.
- R38 Irritating to the skin.

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation