

ECLIPSE HD (HEAVY DUTY) DEGREASER

I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Eclipse HD Heavy Duty Degreaser
Product Use: Water based degreaser concentrate

Product Number: 396

Manufacturer Address:
 Amano Pioneer Eclipse Corp.
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 Sparta, NC 28675 USA

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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

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

EU Classification: Classified as Corrosive

Hazard symbol:



Risk phrases: R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 R35- Causes severe burns.
 R36/37/38- Irritating to eyes, respiratory system and skin.

Safety phrases: S1/2- Keep locked up and out of the reach of children.
 S13- Keep away from food, drink and animal feeding stuffs.
 S24/25- Avoid contact with skin and eyes.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S45- In case of accident or if you feel unwell, seek medical advice immediately.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	EC No.	Weight %	CAS No.	Symbol	R phrases
ethylene glycol monobutyl ether	203-905-0	3 - 7	111-76-2	X _n (Harmful) X _i (irritant)	R20/21/22 R36/38
sodium carbonate	207-838-8	1 - 5	497-19-8	Xi (irritant)	R36
disodium metasilicate	229-912-9	1 - 5	6834-92-0	C (corrosive) Xi (irritant)	R34 R37
caustic soda	215-185-5	1 - 5	1310-73-2	Xi (Irritant)	R36/38

*See section 16 for the full text of R phrases

4. FIRST AID MEASURES

EFFECTS AND SYMPTOMS

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.
Skin contact: Harmful in contact with skin. May cause permanent damage.
Eye contact: Harmful in contact with eyes. May cause permanent damage.

FIRST AID MEASURES

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 directing to do so by medical personnel. Never give anything by mouth to an unconscious person.
Skin contact: Immediately wash with plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) Seek medical attention immediately.
Eye contact: Immediately flush with water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Seek medical attention immediately.

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5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, water spray, foam, carbon dioxide
Hazardous combustion products: None
Unusual fire and explosion hazards: Materials can splatter above 100°C/212°F.
Special fire fighting procedures: Corrosive material (See Sections 8 and 10).

6. ACCIDENTAL RELEASE MEASURES

Put on appropriate personal protective equipment (see Section 8).

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

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limits:

Component Name:	Source / Date	Value / Units	Type
ethylene glycol monobutyl ether	US (ACGIH) / 2005	20 ppm	8 HRS / TWA
ethylene glycol monobutyl ether	US (OSHA) / 2005	50 ppm SKIN	8 HRS / PEL TWA
ethylene glycol monobutyl ether	EU (2000/39/EC)	20 ppm SKIN	8 HRS/TWA
caustic soda	US (ACGIH) / 2005	2 mg/m ³	ceiling STEL
caustic soda	US (OSHA)	2 mg/m ³	8 HRS / PEL TWA

Exposure controls: Ensure adequate general ventilation.
Environmental exposure controls: No specific environmental exposure controls required.

PERSONAL PROTECTION

Respiratory protection: No specific personal protection is required.
Hand protection: Rubber gloves recommended
Eye protection: Safety glasses recommended
Skin protection: If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear dark purple liquid
Odor Threshold: N/E
Freezing Point: -3°C
Flash point: >93 °C
Upper/Lower flammability/explosive limits: N/A
Vapor density: Greater than air
Solubility: 100% soluble in water
Auto Ignition Temperature: N/E
Viscosity: < 5 centipoise @ 20°C
Oxidizing properties: Not an oxidizer
VOC: 5%(as supplied), 1.04%(1:4), 0.58%(1:8), 0.16%(1:32), 0.08%(1:64)
Odor: Sassafras
pH: 12.5
Boiling point/boiling range: 100°C
Evaporation rate: Less than water
Vapor pressure: Greater than water
Relative density: 1.07 kg/l @ 20°C
Partition coefficient (n-octanol/water): N/E
Decomposition Temperature: N/E
Explosive properties: None
Other Information: N/A

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10. STABILITY AND REACTIVITY

Chemical 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
Hazardous decomposition products:	None known

11. TOXICOLOGICAL INFORMATION

PREPARATION SUMMARY - Toxicity testing has not been completed on the mixture.

LOCAL EFFECTS

Skin contact:	Corrosive. Can cause skin burns.
Eye Contact:	Corrosive. Can cause eye burns.
Sensitization:	None known
Chronic effects:	None known

SPECIFIC EFFECTS

Carcinogenicity:	None known
Reproductive effects:	None known
Teratogenicity:	None known
Mutagenicity:	None known

COMPONENT SUMMARY *

disodium metasilicate CAS# 6834-92-0

LD₅₀: (oral, rat) 1500-3200 mg/kg

Potential Health Effects

Eye: Corrosive. Causes eye burns
Skin: Corrosive. Causes skin burns.
Ingestion: Corrosive. Causes burns to mouth, esophagus, and stomach.
Inhalation: Dust corrosive to respiratory tract.
Chronic: No known chronic hazards
Carcinogenicity: Not listed as a carcinogen.

sodium carbonate CAS# 497-19-8

LD₅₀: (oral, rat) 5000 mg/kg

Potential Health Effects

Eye: Causes irritation of the eyes.
Skin: Continuous contact may cause skin irritation.
Ingestion: May be harmful if swallowed. Symptoms may include nausea and vomiting.
Inhalation: May irritate the mucous membranes and upper respiratory tract.
Chronic: No data available.
Carcinogenicity: Not listed as a carcinogen.

ethylene glycol monobutyl ether CAS# 111-76-2

LD₅₀: (Oral, rat) 470 mg/kg –1746 mg/kg

Potential Health Effects

Eye: May cause severe eye irritation.
Skin: May cause slight skin irritation with local redness. Repeated exposure may cause a burn
Ingestion: Moderate toxicity if swallowed. Causes irritation to the gastrointestinal tract.
Inhalation: May cause irritation to upper respiratory tract (nose and throat).
Chronic: Prolonged or repeated exposure can cause damage to the liver, kidneys, lymphoid system, blood and blood-forming organs.
Carcinogenicity: Not listed as a carcinogen.

caustic soda CAS# 1310-73-2

LD₅₀: (Oral, rat) (50%soln) 220 mg/kg

Potential Health Effects

Eye: May cause irritation (possibly severe), chemical burns and eye damage.
Skin: May cause irritation (possibly severe) and chemical burns.
Ingestion: May cause irritation (possibly severe), chemical burns, nausea and vomiting.
Inhalation: May cause irritation (possibly severe), chemical burns and pulmonary edema.
Chronic: Chronic effects due to long-term irritation and over-exposure. May produce inflammation of the eyes, skin and mucous membranes.
Carcinogenicity: Not listed as a carcinogen.

*Component data recorded from available sources pertaining to individual component CAS number.

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12. ECOLOGICAL INFORMATION

PREPARATION SUMMARY - Ecological testing has not been completed on the mixture.

COMPONENT SUMMARY *

disodium metasilicate CAS# 6834-92-0

LC50, 96 hr Gambusia affinis 2320 ppm

LC50, 96 hr Daphnia magna 247 ppm

Environmental Fate: This material is not persistent in aquatic systems. Not expected to bioconcentrate.

sodium carbonate CAS# 497-19-8

LC50, 96 hr Bluegill sunfish 300-320 mg/l

LC50, 96 hr Daphnia magna 265-565 mg/l

Environmental Fate: Inorganic substance. No significant toxicity to aquatic organisms is expected.

ethylene glycol monobutyl ether CAS# 111-76-2

LC50, 96 hr bluegill (Lepomis macrochirus) 820 – 1490 mg/l

LC50, water flea (Daphnia magna) 835 mg/l

Environmental Fate: Material is readily biodegradable. Bioconcentration potential is low.

caustic soda CAS# 1310-73-2

LC50, 24 hr brook trout 25 ppm

EC50, Daphnia magna 100 ppm

Environmental Fate: This material is inorganic and not subject to biodegradation. Not expected to bioconcentrate.

*Component data recorded from available sources pertaining to individual component CAS number.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

International transportation regulations:

UN number: UN1760

Packing group: II

LAND-ROAD/RAILWAY

Proper shipping name: Corrosive liquid, n.o.s. (contains disodium trioxosilicate)

ADR/RID class: 8

ADR/RID item number: 80°C

SEA

Proper shipping name: Corrosive liquid, n.o.s. (contains disodium trioxosilicate)

IMDG class: 8

Medical First Aid Guide (MFAG): 730

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

Marine Pollutant: none

15. REGULATORY INFORMATION

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.

EINECS Status: Ingredients are included in the EINECS/ELINCS/NLP inventories.

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16. OTHER INFORMATION

Product intended for commercial and industrial use only.

Risk (R-) phrases

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

R34- Causes burns.

R35- Causes severe burns.

R36/37- Irritating to eyes and respiratory system.

R38- Irritating to the skin.

Safety (S-) phrases:

S1/2- Keep locked up and out of the reach of children.

S13-Keep away from food, drink and animal feeding stuffs.

S22-Do not breathe dust.

S24/25-Avoid contact with skin and eyes.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45-In case of accident or if you feel unwell, seek medical advice immediately.

S46- If swallowed, seek medical advice immediately and show this container or label.

Detergent/Cleaner labeling (EC/648/2004): (<5%) anionic surfactant, (<5%) Non-ionic surfactant, (<5%) EDTA, and (<5%) perfume

Issued by:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation

Revision Information:

09/01/2011 – revisions Section 9 (appearance, flashpoint, pH, VOC), 14 (technical name, PG), 16 (use statement)

04/01/2011 - revisions conforming to 1907/2006/EC amendment 453/2010, revision Section 3 & 9 (pH)

01/11/2010 - revisions conforming to 1907/2006/EC