



# MATERIAL SAFETY DATA SHEET

Conforms to 1907/2006/EC Issued: 12/05/20086

**PRODUCT NAME: ECLIPSE INDUSTRIAL STRENGTH ALL PURP. DEGREASER**

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

<b>PRODUCT NAME</b>	: Eclipse Industrial Strength All Purpose Degreaser	Product Number: 396
<b>PRODUCT USE</b>	: Water based degreaser concentrate	

<b>MANUFACTURER</b>	: Amano Pioneer Eclipse Corp.	
<b>P.O.BOX</b>	: 909	
<b>ADDRESS</b>	: 1 Eclipse Road, Sparta NC28675, USA	
<b>PHONE</b>	: +1 336 372 8080	

## 2. HAZARDS IDENTIFICATION

**Physical/chemical hazards:** Corrosive  
**Human health hazards:** Corrosive  
**Environmental hazards:** On the basis of available information, this material/preparation is not expected to produce any significant adverse environmental effects when used as directed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation:** Preparation

### INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R phrases
Sodium metasilicate (Disodium trioxosilicate)	229-912-9	2-5	6834-92-0	Xi (irritant) C (corrosive)	R34, R37
Sodium carbonate	207-838-8	2-5	497-19-8	Xi (irritant)	R36
2-butoxy-ethanol	203-905-0	20-25	111-76-2	X <sub>n</sub> (Harmful) X <sub>i</sub> (irritant)	R20/21/22, R36/38

\*See section 16 for the full text of relevant 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:** May cause burns to mouth, throat and stomach. May be harmful if swallowed.  
**Skin contact:** May cause permanent damage. Harmful in contact with skin.  
**Eye contact:** May cause permanent damage.

### FIRST AID MEASURES

**Inhalation:** If breathing is difficult: Remove to fresh air. Get medical attention immediately.  
**Ingestion:** Do not induce vomiting! Immediately drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.  
**Skin contact:** Immediately wash off with plenty of water for at least 15 minutes. Get medical attention immediately.  
**Eye contact:** Immediately wash out with water for at least 15 minutes. Get 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. 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 limit values:**

Component Name:	Source / Date	Value / Units	Type	Carcinogenic Listing*
2-butoxyethanol	US (ACGIH) / 2005	20 ppm	8 HRS / TWA	N/L
2-butoxyethanol	US (OSHA) / 2005	50 ppm SKIN	8 HRS / PEL TWA	

\*1 = OSHA 2 = IARC 3 = NTP 4 = Others N/L = Not Listed

**Exposure controls:** No special ventilation requirements. Ensure adequate general ventilation.

### OCCUPATIONAL EXPOSURE CONTROLS

**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.

**Environmental exposure controls:** No specific environmental exposure controls required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### GENERAL INFORMATION

**Appearance:** Thin purple liquid

**Odor:** Sassafras



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## IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**pH:** 13.25 to 13.75

**Flash point:** none

**Oxidizing properties:** Not an oxidizer

**Relative density:** 1.07 kg/l @ 20°C

**Partition coefficient (n-octanol/water):** Not determined

**Vapor density:** Greater than air

**Boiling point/boiling range:** 100°C

**Explosive properties:** None

**Vapor pressure:** Greater than water

**Solubility:** 100% soluble in water

**Viscosity:** less than 5 CPS @ 20°C

**Evaporation rate:** Less than water

## 10. STABILITY AND REACTIVITY

**Conditions to avoid:** None known

**Materials to avoid:** None known

**Hazardous decomposition products:** None known

## 11. TOXICOLOGICAL INFORMATION

### COMPONENT SUMMARY

Sodium metasilicate

**LD<sub>50</sub>:** (Oral) rat 1300 mg/kg

#### Potential Health Effects

**Eye:** Causes eye irritation. Causes redness and pain.

**Skin:** Causes skin irritation. Causes redness and pain.

**Ingestion:** Harmful if swallowed. Causes digestive tract irritation with abdominal pain and vomiting.

**Inhalation:** Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, and breathing difficulty.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis.

**CARCINOGENICITY:** Not expected to occur.

### COMPONENT SUMMARY

Sodium carbonate

**LD<sub>50</sub>:** (Oral) rat 4090 mg/kg

#### Potential Health Effects

**Eye:** Causes eye irritation. Causes redness and pain.

**Skin:** Causes skin irritation. Causes redness and pain.

**Ingestion:** Harmful if swallowed. Causes digestive tract irritation with abdominal pain and vomiting.

**Inhalation:** May irritate the mucous membranes and upper respiratory tract.

**Chronic:** No data available.

**CARCINOGENICITY:** Not expected to occur.

2-butoxyethanol

**LD<sub>50</sub>:** (Oral) rat 470 mg/kg

#### ACUTE INHALATION EFFECTS:

Short term exposure to high concentrations of vapors (300 - 600 PPM) can cause respiratory and eye irritation, CNS depression, and possible damage to kidney and liver.

#### ACUTE ORAL EFFECTS:

The major toxic effect in acute and sub-chronic animal studies was intra-vascular red cell hemolysis (destruction). This was often associated with secondary effects such as spleen and liver enlargement and nephropathy. Studies show that hemolysis and secondary effects are not relevant to humans.

#### SKIN EFFECTS:



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This substance is a mild skin irritant.

**EYE EFFECTS:**

This product is expected to be an eye irritant.

**REPEATED DOSE TOXICITY:**

Administration of ethylene glycol monobutyl ether (EGBE) to rats (855 mg/kg/day) and mice (1000 mg/kg/day) for periods of 5-6 weeks showed no effects on the tests. NTP reported testicular weight changes in rats and mice ingesting up to 6000 PPM (443 and 694 mg/kg/day in rats and mice) of EGBE in a 13 week drinking water study. No chemically related microscopic lesions were seen.

**CARCINOGENICITY:**

Not expected to occur.

**PREPARATION SUMMARY**

**Acute Toxicity:** Corrosive. Oral LD50 estimated to be between 200 - 2000 mg/kg. Dermal LD50 estimated to be between 400 - 2000 mg/kg. LC50 estimated to be between 2 - 20 mg/L/4hr.

**LOCAL EFFECTS**

<b>Skin contact:</b>	See Section 4.
<b>Eye contact:</b>	See Section 4.
<b>Sensitization:</b>	None known
<b>Chronic effects:</b>	None known

**SPECIFIC EFFECTS**

<b>Carcinogenicity:</b>	None known
<b>Reproductive effects:</b>	None known
<b>Teratogenicity:</b>	None known
<b>Mutagenicity:</b>	None known

**12. ECOLOGICAL INFORMATION**

**COMPONENT SUMMARY**

Sodium metasilicate: not available

2-butoxyethanol

Fathead minnow LC50 = 1900 mg/l

Sodium carbonate:

96 hour LC<sub>50</sub> = 265-565 mg/L (daphnia magna) (low toxicity)

96-hour LC<sub>50</sub> = 300-320 mg/L (bluegill sunfish) (low toxicity)

**PREPARATION SUMMARY**

<b>Ecotoxicity:</b>	This preparation is highly soluble in water. Limited toxicity tests and models indicate this preparation should exhibit low toxicity to aquatic organisms.
<b>Environmental Fate:</b>	This preparation will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.
<b>Bioaccumulation:</b>	Because of this preparation's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil. Based on available information, this preparation is not expected to produce any significant adverse environmental effects, when used as directed.

**13. DISPOSAL**

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

## PRODUCT NAME: ECLIPSE INDUSTRIAL STRENGTH ALL PURP. DEGREASER

### 14. TRANSPORT INFORMATION

#### INTERNATIONAL TRANSPORTATION REGULATIONS:

**UN number:** UN1760  
**Packing group:** III  
LAND-ROAD/RAILWAY  
**Proper shipping name:** Corrosive liquid, n.o.s. mixture contains Sodium Metasilicate  
**ADR/RID class:** 8  
**ADR/RID item number:** 80°c

#### SEA

**Proper shipping name:** Corrosive liquid, n.o.s. mixture contains sodium metasilicate  
**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:** No additional national regulations are known to the supplier.

#### EU REGULATIONS



#### HAZARD SYMBOL:

**EU Classification:** Classified as Corrosive according to current legislation (67/548/EEC, 1999/45/EC).

**Risk phrases:** See Section 16.

**Safety 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.
- S60-This material and its container must be disposed of as hazardous waste.
- S61-Avoid release to the environment.

**EINECS Status:** All ingredients are included in the EINECS inventories.

**CANADA CPR Status:** This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.



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## OTHER DATA

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.

## 16. OTHER INFORMATION

### Relevant R phrases

R10-Flammable.

R34- Causes burns.

R36/37-Irritating to eyes and respiratory system.

R38-Irritating to the skin.

R43-May cause sensitization by skin contact.

R50/53-Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Detergent/Cleaner labeling (89/542/EEC):** (0.2-<5%) anionic surfactant, (0.2-<5%) Non-ionic surfactant, (0.2-<5%) EDTA, and (0.2<5%) perfume

### Issued by:

Jamie Moxley, Laboratory Technician

### Revision Information:

12/05/08, revisions conforming to 1907/2006/EC