



# MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 26/09/2005

## PRODUCT NAME: LASERSHOT Spray & Wipe Degreaser

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

<b>PRODUCT NAME</b>	: LaserShot Spray & Wipe Degreaser	Product Number: 323RTU
<b>PRODUCT USE</b>	: Ready to Use water based degreaser	

<b>MANUFACTURER</b>	: 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. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation: Preparation

#### INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R phrases *
2-Butoxyethanol	203-905-0	5-10	111-76-2	X <sub>n</sub> (Harmful) X <sub>i</sub> (irritant)	R20/21/22, R36/38
2-Aminoethanol	205-483-3	1-3	141-43-5	X <sub>n</sub> (Harmful) C (Corrosive)	R20/21/22 R34

\*See section 16 for the full text of relevant R phrases

### 3. HAZARDS IDENTIFICATION

<b>Physical/chemical hazards:</b>	No physical or chemical hazards have been reported or are known.
<b>Human health hazards:</b>	Harmful in contact with skin. Harmful if swallowed. Harmful by inhalation.
<b>Environmental hazards:</b>	On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects when used as directed.

### 4. FIRST AID MEASURES

#### EFFECTS AND SYMPTOMS

<b>Inhalation:</b>	May be harmful if inhaled. May cause irritation to nose, throat and respiratory tract.
<b>Ingestion:</b>	May cause irritation to mouth, throat and stomach. May be harmful if swallowed.
<b>Skin contact:</b>	May cause irritation.
<b>Eye contact:</b>	May cause irritation

#### FIRST AID MEASURES

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

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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:** None

### 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	
2-aminoethanol	US (ACGIH) / 2005	3 ppm 7.5 mg/m3	8 HRS / TWA	N/L
2-aminoethanol	US (ACGIH) / 2005	6 ppm 15 mg/m3	15 min / STEL	

\*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

**PRODUCT NAME: LASERSHOT Spray & Wipe Degreaser****OCCUPATIONAL EXPOSURE CONTROLS (to be continued)**

**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 red liquid

**Odour:** spearmint

**IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION**

**pH:** 11.95 to 12.45

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

**Flash point:** 66°C

**Explosive properties:** None

**Oxidizing properties:** Not an oxidizer

**Vapour pressure:** Greater than water

**Relative density:** 1.00kg/l @ 20°C

**Solubility:** 100% soluble in water

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

**Viscosity:** Less than 10 CPS @ 20°C

**Vapour density:** Greater than air

**Evaporation rate:** Less than water

**Other information:** N/A

**10. STABILITY AND REACTIVITY**

**Conditions to avoid:** None known

**Materials to avoid:** May react or be incompatible with acids and chlorine bleach.

**Hazardous decomposition products:** None known

**11. TOXICOLOGICAL INFORMATION****COMPONENT SUMMARY**

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:** This substance is a mild skin irritant.

**EYE EFFECTS:** This product is expected to be an eye irritant.

**Repeated Dose Toxicity:**

Administration of 2-butoxyethanol to rats (855 mg/kg/day) and mice (1000 mg/kg/day) for periods of 5-6 weeks showed no effects on the testes. 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 2-butoxyethanol in a 13 week drinking water study. No chemically related microscopic lesions were seen.

**CARCINOGENICITY:**

Not expected to occur.

**PRODUCT NAME: LASERSHOT Spray & Wipe Degreaser**2-Aminoethanol

2-Aminoethanol is a severe eye irritant and a skin irritant. Chronic exposure can cause irritant or allergic contact dermatitis, occupational asthma and possibly liver damage. 2-Aminoethanol was teratogenic in rats exposed by the oral route at high doses, but was not teratogenic or fetotoxic in rats or rabbits exposed dermally. It is in Class B (few reproductive effects in animals but no human data) for reproductive hazard. The actual human reproductive hazard is unknown.

**LD<sub>50</sub>:** (Oral) Rat 1200 MG/KG

**ACUTE INHALATION EFFECTS:**

Prolonged and repeated exposure to vapors may cause damage to the CNS, lungs and kidneys.

**ACUTE ORAL EFFECTS:**

May cause CNS depression, gastrointestinal tract, liver and kidney damage.

**Repeated Dose Toxicity:**

Chronic occupational exposure reportedly was associated with chronic bronchitis, liver damage, weakness and fatigue. Occupational asthma has also been reported with chronic exposure. Rats chronically exposed had degenerative changes in the liver, heart and lungs.

**CARCINOGENICITY:**

At the time of this review, no studies were found on the possible carcinogenic activity of this material in humans or experimental animals.

**PREPARATION SUMMARY****Acute Toxicity:**

Oral LD<sub>50</sub> estimated to be > 2000 mg/kg. Dermal LD<sub>50</sub> estimated to be >2000 mg/kg.

**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**2-butoxyethanol

Fathead minnow LC<sub>50</sub> = 1900 mg/l

2-Aminoethanol

Fathead minnow; 96hr; LC<sub>50</sub> = 206 mg/l

**PREPARATION SUMMARY**

**Ecotoxicity:** These materials are highly soluble in water. Limited toxicity tests and models indicate these materials should exhibit low toxicity to aquatic organisms.

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**Environmental Fate:** These materials 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.

**Bioaccumulation:** Because of these materials' high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that these materials will preferentially partition to water versus air or soil. On the basis of available information, this material 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.

### 14. TRANSPORT INFORMATION

#### INTERNATIONAL TRANSPORTATION REGULATIONS:

**UN number:** not applicable

**Packing group:** not applicable

#### LAND-ROAD/RAILWAY

**Proper shipping name:**

not applicable

**ADR/RID class:**

not applicable

**ADR/RID item number:**

not applicable

#### SEA

**Proper shipping name:**

not applicable

**IMDG class:**

not applicable

**Medical First Aid Guide (MFAG):**

not applicable

**Emergency Schedules (EmS):**

not applicable

**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 Harmful 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.

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.

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

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S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**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*.

### **Other Data**

The surfactant contained in this preparation complies 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:**

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

R34-Causes burns.

R36/38- Irritating to eyes and skin.

### **Detergent/Cleaner labeling (89/542/EEC):**

(0.2-<5%) Non-ionic surfactant, (<5%) Preservative- Methylchloroisothiazolinone and Methylisothiazolinone and (<5%) Perfume.

### **Issued by:**

Genie G Bost, Regulatory Affairs Manager

### **Revision Information:**

26/09/2005, revision conforming to 648/2004/EC