

LASERSHOT SPRAY & WIPE DEGREASER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: LaserShot Spray & Wipe Degreaser
 Product Type: All purpose degreaser

Product Number: 323

Manufacturer Address:

Amano Pioneer Eclipse Corporation
 P.O. Box 909
 1 Eclipse Road
 Sparta, NC 28675

Contact Information:

Telephone: 1-336-372-8080
 Email: msds@pioneer-eclipse.com
 Internet: www.pioneer-eclipse.com

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

OSHA status: Hazardous

Danger. Corrosive to skin and eyes. Combustible Liquid. Avoid contact with skin and eyes. Use in well-ventilated area. Keep away from heat and flame. Keep container closed when not in use. Keep out of reach of children.

Precautions:

Potential Health Effects:

Eye Contact: Causes eye burns. May cause permanent damage.

Skin Contact: Causes skin burns. 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.

Health: 3
Flammability: 2
Reactivity: 0

3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS Number	Weight %
ethylene glycol monobutyl ether	111-76-2	30 - 60
monoethanolamine	141-43-5	10 -30

4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Seek medical attention immediately.

Skin Contact: In case of contact, immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately.

Inhalation: If breathing is difficult. Remove subject to fresh air. Seek medical attention immediately.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting. Seek medical advice immediately.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, CO₂, dry chemical, alcohol-type or universal type foams

Special Fire Fighting Procedures: Combustible and Corrosive liquid. (See Sections 8 and 10.) Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing. Fire fighters should wear NIOSH approved breathing apparatus.

Hazardous Combustible Products: N/A

Unusual Fire and Explosion Hazards: Materials can splatter above 100° C / 212° F.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery; use care to avoid falling.

Environmental Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

Containment and Clean-Up

Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.

LASERSHOT SPRAY & WIPE DEGREASER

Large Spills: 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.

Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local state and federal regulations concerning disposal of hazardous materials. Non-salvageable liquid should be drummed and turned over to a licensed hazardous waste disposal facility.

7: HANDLING AND STORAGE

Handling: Keep away from heat and flame. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing and footwear before re-use. Use only in well-ventilated areas. Avoid breathing vapors or mists.

Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F).

Other information: Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

Ingredient	CAS Number	ACGIH		OSHA	
		TWA	STEL	TWA	STEL
ethylene glycol monobutyl ether	111-76-2	20 ppm (BEI)	N/L	50 ppm (skin)	N/L
monoethanolamine	141-43-5	3 ppm	6 ppm	3 ppm	N/L

Engineering Controls: Ensure adequate general ventilation.

Personal Protective Equipment (PPE)

Eye/Face Protection: Chemical splash goggles (ANSI Z87.1-1989 or approved equivalent.)

Skin Protection: Rubber gloves recommended. If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

Respiratory Protection: None required when permissible airborne concentrations are not exceeded. In an emergency, use approved positive pressure self-contained breathing device.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, red liquid	Odor: spearmint
Odor Threshold: N/E	pH: 12
Freezing Point: 32°F / 0°C	Boiling Point: 212°F / 100°C
Flash Point: 150°F / 66°C (ASTM D56)	Evaporation Rate: less than water
Viscosity: < 10 cps @ 68°F	Upper/Lower Flammability limits: N/A
Vapor Pressure: less than water	Vapor Density: greater than air
Relative Density: 8.3 lb/gal @ 68°F / 0.99 kg/l @ 20°C	Solubility: 100% soluble in water
Partition Coefficient (n-octanol/water): N/E	Auto Ignition temperature: N/E
Decomposition Temperature: N/E	Volatile by Weight: 98%
VOC: 50% (as supplied), 6.96% (1:6), 5.41% (1:8)	

10: STABILITY AND REACTIVITY

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. Combustible liquid, keep away from heat and flame.

Incompatible materials: Strong acids (or bases) and oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and nitrogen oxides.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

Ingredient	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC ₅₀ Inhalation-Rat (mg/l)	Carcinogenicity	CA - Prop 65
ethylene glycol monobutyl ether	470	220	2.21	IARC 3	N/L
monoethanolamine	1,720	1,025	N/E	N/L	N/L

LASERSHOT SPRAY & WIPE DEGREASER

LOCAL EFFECTS

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

SPECIFIC EFFECTS

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

12: ECOLOGICAL INFORMATION

Ecological data not available.

13: DISPOSAL CONSIDERATIONS

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

14: TRANSPORT INFORMATION

Proper Shipping Name: Corrosive liquid, n.o.s (ethanolamine) **Hazard Class:** 8
UN Number: UN1760 **Packing Group:** III

15: REGULATORY INFORMATION

U.S. Regulations/Reporting

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
ethylene glycol monobutyl ether	111-76-2	N/L	1.00%	N/L
monoethanolamine	141-43-5	N/L	N/L	N/L

State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
ethylene glycol monobutyl ether	111-76-2	present	present	present	present
monoethanolamine	141-43-5	present	present	present	present

Canada Regulations/Reporting

WHMIS Hazard Symbol:



WHMIS hazard class:

E B3

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

Ingredients required for disclosure:

Ingredient	CAS Number	Weight %	Classification
ethylene glycol monobutyl ether	111-76-2	> 1%	B3, D1A, D2B
monoethanolamine	141-43-5	> 1%	B3, E

16: OTHER INFORMATION

Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

IARC 3- Unclassifiable as to Carcinogenicity in Humans.

Revision History:

08/15/2011- added combustible classification and advise as needed, Section 9 added VOC
 04/01/2011- format change to ANSI Z400.1-2004, corrected pH range

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnish of such information.

This MSDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****