

### FLASH 55 HIGH PERFORMANCE EMULSIFIER

#### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Flash 55 High Performance Emulsifier  
 Product Type: Fast acting stripper

Product Number: 516

**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- Corrosive

**Precautions:** Danger. Corrosive to skin and eyes. Keep container closed when not in use. Keep out of reach of children.


**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.

		
<b>Health:</b>		<b>3</b>
<b>Flammability:</b>		<b>0</b>
<b>Reactivity:</b>		<b>0</b>

#### 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	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.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.

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

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

#### 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, CO<sub>2</sub>, dry chemical, alcohol-type or universal type foams

**Special Fire Fighting Procedures:** 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:** None known

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

#### 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** 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.

**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.

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

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

**Other information:** Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

#### 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure Limits:

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

<b>Appearance:</b> clear blue, liquid	<b>Odor:</b> floral fragrance
<b>Odor Threshold:</b> N/E	<b>pH:</b> 11.5
<b>Freezing Point:</b> 32°F / 0°C	<b>Boiling Point:</b> 212°F / 100°C
<b>Flash Point:</b> > 200°F / > 93°C (ASTM D56)	<b>Evaporation Rate:</b> less than water
<b>Viscosity:</b> < 10 cps @ 68°F	<b>Upper/Lower Flammability limits:</b> N/A
<b>Vapor Pressure:</b> less than water	<b>Vapor Density:</b> greater than air
<b>Relative Density:</b> 7.98 lb/gal @ 68°F / 0.96 kg/l @ 20°C	<b>Solubility:</b> 100% soluble in water
<b>Partition Coefficient (n-octanol/water):</b> N/E	<b>Auto Ignition temperature:</b> N/E
<b>Decomposition Temperature:</b> N/E	<b>VOC:</b> 54.5% (as supplied), 10.5% (1:4), 5.8% (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

**Incompatible materials:** Strong acids 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 <sub>50</sub> Inhalation-Rat (mg/l)	Carcinogenicity	CA - Prop 65
ethylene glycol monobutyl ether	470	220	2.21 (4 hr)	IARC 3	N/L
monoethanolamine	1720	1025	N/A	N/L	N/L

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#### 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:** II

Package Volumes < 1L are shipped under Limited Quantity Exemption; as permitted by hazard class and quantity limits.

#### 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

##### 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

##### 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

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*.

#### 16: OTHER INFORMATION

Product intended for commercial and industrial use only.

##### Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

IARC 3- Unclassifiable as to Carcinogenicity in Humans.

##### Revision Details:

05/30/2013- Correction to flash point & warnings.

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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\*\***