



## SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2015/830

Issued: Sept. 21, 2016

Supersedes: May 20, 2015

### FINAL STRIP HD FLOOR STRIPPER

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 PRODUCT IDENTIFIER

Product Name: Final Strip H.D. (Heavy Duty) Floor Stripper

Product Number: 502

##### 1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Floor finish remover concentrate

Uses Advised Against: Other than per labelled instructions.

##### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

###### Manufacturer:

Amano Pioneer Eclipse Corporation

P.O. Box 909

1 Eclipse Road

Sparta, NC 28675

Telephone: 1-336-372-8080

Email: sds@pioneereclipse.com

Internet: www.pioneereclipse.com

##### 1.4 EMERGENCY TELEPHONE NUMBER

**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)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1 CLASSIFICATION OF THE MIXTURE

This mixture has been classified according to EC 1272/2008.

Skin Corrosion - Category 1B

Eye Damage - Category 1

Specific Target Organ Toxicity (Single Exposure) - Category 3

##### 2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram(s):



Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary Statement(s):

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P310 Immediately call a POISON CENTER/doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### 2.3 OTHER HAZARDS

No other hazards are known to the supplier



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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.1/3.2 SUBSTANCES/MIXTURES

Ingredient	EC No.	Weight %	CAS No.	CLP Classification	
				Hazard Class	Hazard Statement(s)*
ethylene glycol monobutyl ether	203-905-0	10 - 30	111-76-2	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
ethanolamine	205-483-3	5 - 10	141-43-5	Acute Tox 4 Skin Corr 1B STOT SE 3	H302,H312,H332 H314 H335

\*See section 16 for the full text of R phrases and Hazard Statements

#### SECTION 4: FIRST AID MEASURES

##### 4.1 DESCRIPTION OF FIRST AID MEASURES

**Eye Contact:** Immediately wash out with water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Seek medical attention immediately.

**Skin Contact:** Immediately wash with plenty of water for at least 15 minutes. (Remove any contaminated clothing and shoes.) Seek medical attention immediately.

**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 directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

##### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**Eye Contact:** Causes serious eye damage. May cause permanent damage.

**Skin Contact:** Causes skin burns. May cause permanent damage.

**Inhalation:** May cause irritation and corrosive effects to nose, throat and respiratory tract.

**Ingestion:** May cause burns to mouth, throat and stomach.

##### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information available.

#### SECTION 5: FIRE FIGHTING MEASURES

##### 5.1 EXTINGUISHING MEDIA

In case of fire: use dry chemical, water spray, foam, carbon dioxide

##### 5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

Hazardous combustion products: CO, CO<sub>2</sub>

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include but not limited to the above mentioned substances.

##### 5.3 ADVICE FOR FIRE FIGHTERS

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection. Fire-fighters should wear clothing conforming to EN469 for chemical incidents. Materials can splatter above 100°C/212°F. Corrosive material.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Refer to Section 8 for appropriate personal protective equipment.

##### 6.2 ENVIRONMENTAL PRECAUTIONS

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



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#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

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.

#### 6.4 REFERENCE TO OTHER SECTIONS: Refer to Section 8 of the SDS.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE 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.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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

#### 7.3 SPECIFIC END USE(S): No information available

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

Workplace Exposure Limits:

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
ethylene glycol monobutyl ether	ACGIH TLV	20	97	-	-	BEI
	DE (TRGS 900)	-	-	10	49	H,Y, AGS
	DK - At-Vejledning Stoffer og materialier- C.0.1	20	98	-	-	EH
	EU (2000/39/EC)	20	98	50	246	Skin
	NO – Forskrift, best.nr. 704	-	-	10	50	H
	EH40	25	123	50	246	Sk, BMGV

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
ethanolamine	ACGIH TLV	3	7.5	6	15	-
	DE (TRGS 900)	-	-	2	5.1	H,Y,Sh
	DK - At-Vejledning Stoffer og materialier- C.0.1	1	2.5	-	-	H
	EU (2006/15/EC)	1	2.5	3	7.6	Skin
	NO Administrative Norm	1	2.5	-	-	H
	EH40	1	2.5	3	7.6	Skin

#### 8.2 EXPOSURE CONTROLS

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Environmental exposure controls: No specific environmental exposure controls known.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended to avoid chemical splashes and mists.  
Safety glasses or goggles (EN166).



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Hand Protection:	Chemical resistant gloves are recommended. (EN374). Protective index 6, Breakthrough time > 480 mins. (E.g. - nitrile gloves, 0.4 mm thickness) Protective gloves should be selected according to the application and duration of use. Workplace selection should take into consideration handling requirements, physical requirements and exposure to other substances.
Skin Protection:	If major exposure is possible, wear suitable protection such as rubber boots, apron, etc.
Respiratory Protection:	Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator with multi-purpose combination filter. (E.g. - EN 14387- ABEK)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear, red, liquid	
Odor:	slight lemon	
Odor Threshold:	No test data available	
pH:	12.6 (as supplied)	[Method: ASTM E 70]
Melting Point/Freezing Point:	No test data available	
Initial boiling point/boiling range:	No test data available	
Flash Point:	> 93°C	[Method: Closed cup, ASTM D 56]
Evaporation Rate:	No test data available	
Flammability (solid, gas)	Not applicable to liquids	
Upper/lower flammability/explosive limits:	No test data available	
Vapor Pressure:	No test data available	
Vapor Density:	No test data available	
Relative Density:	1.0 kg/L @ 20°C	[Method: Pycnometer, ASTM D 1475]
Solubility:	miscible in water	
Partition Coefficient (n-octanol/water):	No test data available	
Auto Ignition temperature:	No test data available	
Decomposition Temperature:	No test data available	
Viscosity:	< 5 centipoise @ 20°C	[Method: Rotational viscometer, Brookfield]
Explosive Properties:	none	
Oxidizing properties:	none	

### 9.2 OTHER INFORMATION

VOC:	33%(as supplied), 6.5%(1:4), 3.6%(1:8), 2.9%(1:10)
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## SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:	None known
10.2 CHEMICAL STABILITY:	Stable under normal conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	Product may react strongly with water. Care should be used if diluting; product should be slowly added to water.
10.4 CONDITIONS TO AVOID:	None known
10.5 INCOMPATIBLE MATERIALS:	Strong acids, bases and oxidizing agents. Do not mix with other chemicals unless stated on the product label.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	None known

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:	Toxicity testing has not been completed on the mixture. Based on available data, the classification criteria are not met.
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ATE<sub>mix</sub> (oral): > 2000 mg/kg  
ATE<sub>mix</sub> (dermal): > 2000 mg/kg  
ATE<sub>mix</sub> (inhalation): > 20 mg/l (4 hr/vapour)

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation-rat (mg/l)
ethylene glycol monobutyl ether	111-76-2	1300	2000	guinea pig (1hr), >3.1
ethanolamine	141-43-5	1515	2504	(4hr), >1.3

#### SKIN CORROSION/IRRITATION:

Causes severe skin burns.  
Classified as Skin Corrosive - Category 1B

#### SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye damage.  
Classified as Eye Damage - Category 1

#### RESPIRATORY OR SKIN SENSITIZATION:

Based on available data, the classification criteria are not met.

#### GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.

#### CARCINOGENICITY:

Based on available data, the classification criteria are not met.

#### REPRODUCTIVE TOXICITY:

Based on available data, the classification criteria are not met.

#### STOT-SINGLE EXPOSURE:

Classified as STOT-SE - Category 3  
May cause respiratory irritation.

#### STOT-REPEATED EXPOSURE:

Based on available data, the classification criteria are not met.

#### ASPIRATION HAZARD:

Based on available data, the classification criteria are not met.

#### 11.2 POTENTIAL ADVERSE HEALTH EFFECTS

Effects and symptoms related to this mixture, if any, are listed in Section 4.2.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY: Ecological testing has not been completed on the mixture.

Component	CAS #	LC50	LC50	EC50 - 72 hr
ethylene glycol monobutyl ether	111-76-2	vertebrate, 820-1490 mg/ml	Daphnia magna, 835 mg/l	algae, 911 mg/l
ethanolamine	141-43-5	vertebrate, 125-2010 mg/ml	Daphnia magna, 33-93 mg/l	algae, 2.5 mg/l

#### 12.2 PERSISTENCE AND DEGRADABILITY: Testing has not been completed on the mixture.

Component	CAS #	Biodegradation
ethylene glycol monobutyl ether	111-76-2	readily biodegradable
ethanolamine	141-43-5	readily biodegradable

#### 12.3 BIOACCUMULATIVE POTENTIAL: Testing has not been completed on the mixture.

Component	CAS #	Partition coefficient n-octanol/water (Log Kow)	Bioconcentration factor (BCF)
ethylene glycol monobutyl ether	111-76-2	0.81	< 100
ethanolamine	141-43-5	-1.91	< 100

#### 12.4 MOBILITY IN SOIL: Testing has not been completed on the mixture.

Component	CAS #	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
ethylene glycol monobutyl ether	111-76-2	67
ethanolamine	141-43-5	1.17



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- 12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable
- 12.6 OTHER ADVERSE EFFECTS:** No data available
- 12.7 ADDITIONAL INFORMATION:** Based on available data, the classification criteria are not met.

#### SECTION 13: DISPOSAL CONSIDERATIONS

##### 13.1 WASTE TREATMENT METHODS

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

EU Waste Catalogue: 20 01 15\* - alkalines

#### SECTION 14: TRANSPORT INFORMATION

- 14.1 UN NUMBER:** UN1760
- 14.2 UN PROPER SHIPPING NAME:** Corrosive liquid, n.o.s. (ethanolamine)
- 14.3 TRANSPORT HAZARD CLASSES:** 8
- 14.4 PACKING GROUP:** III
- 14.5 ENVIRONMENTAL HAZARDS:** N/A
- 14.6 SPECIAL PRECAUTIONS FOR USER:**

Package volumes < 5 L are shipped as Limited Quantity; as permitted by hazard class and quantity limits.

##### IMDG

Emergency Schedules (EmS): Fire F-A, Spillage S-B  
Stowage and Segregation: Category A. Clear of living quarters.  
Marine Pollutant: None

##### ADR/RID

Class: 8  
Item Number: 80  
Classification Code: C9

- 14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MAPROL73/78 AND THE IBC CODE:** N/A

#### SECTION 15: REGULATORY INFORMATION

##### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE

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

NATIONAL REGULATIONS: No additional national regulations are known to the supplier.

- 15.2 CHEMICAL SAFETY ASSESSMENT:** No information available.

#### SECTION 16: OTHER INFORMATION

##### REVISION INFORMATION:

Sept. 21, 2016 - Logo, email address, Revisions per 2015/830, Revisions Section 2.2, 10.5, 11.1, 16

##### ABBREVIATIONS:

N/A - Not applicable  
N/E - Not Established  
N/L - Not Listed

##### FULL TEXT OF HAZARD STATEMENTS:

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.



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H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

#### FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P321 Specific treatment (see ... on this label).  
P337+313 If eye irritation persists: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P403+233 Store in well ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### ISSUED BY:

Chemical/R&D Department  
Amano Pioneer Eclipse Corporation