



## SAFETY DATA SHEET

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

Issued: Oct. 10, 2016

Supersedes: June 15, 2015

### FORMULA X™ BASEBOARD GEL STRIPPER

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

##### 1.1 PRODUCT IDENTIFIER

Product Name: Formula X Baseboard Gel Stripper Product Number: 503A12

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

Product intended for commercial and industrial use only.  
Intended Use: Aerosol floor finish stripper. Ready to use.  
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 1  
Eye Damage - Category 1  
Corrosive to Metals  
Gas under pressure - Liquefied gas

##### 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.  
H280 Contains gas under pressure; may explode if heated.  
H290 May be corrosive to metals.

Precautionary Statement(s):

P251 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves and eye protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
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.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P305 + P351 + P338 Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
P308 + P310 Wash contaminated clothing before reuse.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.



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P405 Store locked up.  
P403 Store in a well-ventilated place.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container according to local, regional and national regulations.

**2.3 OTHER HAZARDS** 10% by mass of the contents are flammable.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1/3.2 SUBSTANCES/MIXTURES

Ingredient	EC No.	Weight %	CAS No.	Classification	
				Hazard Class	Hazard Statement(s)*
Ethylene glycol monobutyl ether	203-905-0	1 - 5	111-76-2	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
Ethanolamine	205-483-3	1 - 5	141-43-5	Acute Tox 4 Skin Corr 1B STOT SE 3	H302,H312,H332 H314 H335
Butane†/Propane (Propellant Blend)	203-448-7/ 200-827-9	8.0 / 2.0	106-97-8/ 74-98-6	Flam Gas 1 Pres Gas	H220

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

†See section 16 for note on dangerous component.

### 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 severe irritation, discomfort or pain, excess blinking and tear production, redness and swelling.

**Skin Contact:** Brief contact may cause irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling.

**Inhalation:** High vapor/aerosol concentrations are irritating to respiratory tract.

**Ingestion:** Harmful if swallowed. May cause headache, dizziness, incoordination, nausea, vomiting, diarrhea and general weakness.

#### 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: Water spray, fog or foam.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

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

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition an flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire a high speed.

#### 5.3 ADVICE FOR FIRE FIGHTERS

Promptly isolated the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.



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Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

### 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.

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

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Disperse vapors with water spray. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to 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

Do not use near heat, sparks or open flame. 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.

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

Keep out of reach of children. Do not store near heat, sparks or open flame. Exposure to temperatures above 120°F may cause bursting. Do not puncture or incinerate container. Store in a cool, dry place. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal.

#### 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>	
Ethanalamine	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



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Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Propane	NO – Forskrift, best.nr. 704	-	-	500	900	-
	DE (TRGS 900)	1000	1800	-	-	DFG
	DK - At-Vejledning Stoffer og materialier- C.0.1	1000	1800	-	-	-

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
n-Butane	NO – Forskrift, best.nr. 704	-	-	250	600	-
	EH40	600	1450	750	1810	-
	DE (TRGS 900)	100	2400	-	-	DFG
	DK - At-Vejledning Stoffer og materialier- C.0.1	500	1200	-	-	-

### 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).

**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, colorless spray	
Odor:	butyl	
Odor Threshold:	No test data available	
pH:	12.5	[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	



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Viscosity: No test data available  
Explosive Properties: none  
Oxidizing properties: none

#### 9.2 OTHER INFORMATION

VOC: 19%

#### SECTION 10: STABILITY AND REACTIVITY

**10.1 REACTIVITY:** None known  
**10.2 CHEMICAL STABILITY:** Stable under normal conditions.  
**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** Under normal conditions of storage and use, hazardous reactions will not occur.  
**10.4 CONDITIONS TO AVOID:** High temperatures, open flames, sparks, welding  
**10.5 INCOMPATIBLE MATERIALS:** Strong acids and oxidizing agents  
**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** carbon monoxide, carbon dioxide

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

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

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation- (mg/l)
Ethylene glycol monobutyl ether	111-76-2	1300	>2000	guinea pig (1hr), >3.1
Ethanolamine	141-43-5	1515	2504	rat (4hr), >1.3
Butane (propellant blend)	106-97-8	N/A	N/A	658 g/L (4 hr)
Propane (propellant blend)	74-98-6	N/A	N/A	N/A

**SKIN CORROSION/IRRITATION:** Classified as Skin Corrosive - Category 1B  
Causes severe skin burns.

**SERIOUS EYE DAMAGE/IRRITATION:** Classified as Eye Damage - Category 1  
Causes serious eye damage.

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

**STOT-REPEATED EXPSURE:** 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.



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Component	CAS #	LC50 - 96 hr	LC50 - 48 hr	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
Butane (propellant blend)	106-97-8	Not available	Not available	Not available
Propane (propellant blend)	74-98-6	Not available	Not available	Not available

**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
Butane (propellant blend)	106-97-8	Not available
Propane (propellant blend)	74-98-6	Not available

**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
Butane (propellant blend)	106-97-8	Not available	Not available
Propane (propellant blend)	74-98-6	Not available	Not available

**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
Butane (propellant blend)	106-97-8	Not available
Propane (propellant blend)	74-98-6	Not available

**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:** Not applicable

**12.6 OTHER ADVERSE EFFECTS:** None known

**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: 16 05 04\* - gases in pressure containers containing dangerous substances

### SECTION 14: TRANSPORT INFORMATION

**14.1 UN NUMBER:** UN1950

**14.2 UN PROPER SHIPPING NAME:** Aerosols, corrosive

**14.3 TRANSPORT HAZARD CLASSES:** 2.2, 8

**14.4 PACKING GROUP:** III

**14.5 ENVIRONMENTAL HAZARDS:** N/A

**14.6 SPECIAL PRECAUTIONS FOR USER:**

This product is shipped under Limited Quantity Exception, based on hazard class and package volume.



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#### IMDG

Emergency Schedules (EmS): Fire F-D, Spillage S-U  
Stowage and Segregation: Protected from sources of heat. Category A. Segregation as for class 9 but "separated from" class 1 except division 1.4.  
Marine Pollutant: None

#### ADR/RID

Class: 2  
Item Number: Not listed  
Classification Code: 5C

**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:

Oct. 10, 2016 - Logo change, Revisions Section 3

†Note on dangerous component - Butane (EC# 203-448-7, CAS# 106-97-8) – contains < 0.1% butadiene

##### 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.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

##### FULL TEXT OF PRECAUTIONARY STATEMENTS:

P321 Specific treatment (see ... on this label).  
P337+313 If eye irritation persists: Get medical advice/attention.

##### ISSUED BY:

Chemical/R&D Department  
Amano Pioneer Eclipse Corporation