



SAFETY DATA SHEET

Conforms to 1907/2006/EC - (EU) 2020/878

Issued: 13-Dec-2022

Supersedes: 15-Jun-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
UFI: DECX-0EV1-C103-DT5H

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.
Aerosols - Category 3
Corrosive to Metals
Eye Damage - Category 1
Skin Corrosion - Category 1

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictogram(s):



Contains: Ethylene glycol monobutyl ether, Ethanolamine, Butane/Propane (Propellant blend)

Hazard Statement(s):

H229 Pressurized container: May burst if heated.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Precautionary Statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn even after use.
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.

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

P308 + P310 Immediately call a POISON CENTER or doctor/physician if you feel unwell.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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, H332 H319 H315
Ethanolamine	205-483-3	1 - 5	141-43-5	Acute Tox 4 Skin Corr 1B	H302, H312, H332 H314
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.

Ingredient	EC No.	CAS No.	Specific Concentration Limits ATE**
Ethylene glycol monobutyl ether	203-905-0	111-76-2	ATE (oral) 1200 mg/kg
Ethanolamine	205-483-3	141-43-5	(5 ≤ C ≤ 100) STOT SE 3, H335

** Acute Toxicity Estimate per Annex VI, (EC) 1272/2008.

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, CO₂



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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.

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 ³	ppm	mg/m ³	
Ethylene glycol monobutyl ether (CAS # 111-76-2)	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 ³	ppm	mg/m ³	
Ethanolamine (CAS # 141-43-5)	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 ³	ppm	mg/m ³	
Propane (CAS # 74-98-6)	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 ³	ppm	mg/m ³	
n-Butane (CAS # 106-97-8)	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: Wear eye protection.

Safety glasses or goggles (EN166).

Hand Protection: Wear chemical resistant gloves. (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)

Hygiene Measures: Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Gel spray	
Colour:	Clear, colorless	
Odour:	Butyl odour	
Melting point/Freezing point:	No test data available	
Boiling point/Boiling range:	No test data available	
Flammability:	Non-Flammable aerosol	
Lower and upper explosion limits:	No test data available	
Flash Point:	> 93 °C	[Method: Closed cup, ASTM D 56]
Auto-ignition temperature:	No test data available	
Decomposition temperature:	No test data available	
pH:	12.5	[Method: ASTM E 70]
Kinematic viscosity:	No test data available	
Solubility:	Miscible in water	
Partition coefficient n-octanol/water [log Pow]:	No test data available	
Vapor pressure:	No	
Density:	1.0 kg/L @ 20°C	[Method: Pycnometer, ASTM D 1475]
Relative vapor density:	No test data available	
Particle characteristics:	Not applicable to liquids	

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Oxidising properties: Not established

Explosive properties: Not established

9.2.2 - Other safety characteristics:

Relative evaporation rate (butylacetate=1): No test data available

VOC content: 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 should 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 HAZARD CLASSES AS DEFINED IN REGULATION (EC) 1272/2008****ACUTE TOXICITY:** Toxicity testing has not been completed on the mixture.

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

ATE_{mix} (oral) - > 2000 mg/kg Not classified as Acutely Toxic (oral).ATE_{mix} (dermal) - > 2000 mg/kg Not classified as Acutely Toxic (dermal).ATE_{mix} (inhalation) - > 20 mg/l (vapour) Not classified as Acutely Toxic (inhalation).

Component	CAS #	LD50 Oral	LD50 Dermal	LC50 Inhalation (Dust/Mist)
Ethylene glycol monobutyl ether	111-76-2	1300 mg/kg	> 2000 mg/kg	guinea pig (1hr) >3.1 mg/L
Ethanolamine	141-43-5	1515 mg/kg	2504 mg/kg	rat (4hr) >1.3 mg/L
Butane (propellant blend)	106-97-8	data not available	data not available	658 mg/L (4 hr)
Propane (propellant blend)	74-98-6	data not available	data not available	data not available

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 INFORMATION ON OTHER HAZARDS****11.2.1 Endocrine disrupting properties:** None known**11.2.2 Other information:** Effects and symptoms related to this mixture, if any, are listed in Section 4.2

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- 12.1 TOXICITY:** Ecological testing has not been completed on the mixture.
Based on available data, the classification criteria are not met.
Component details are given below:

Component	CAS #	LC50 fish (96 h)	EC50 Daphnia (48 h)	EC50 algae (72 h)
Ethylene glycol monobutyl ether	111-76-2	820-1490 mg/ml	835 mg/l	911 mg/l
Ethanolamine	141-43-5	125-2010 mg/ml	33-93 mg/l	2.5 mg/l
Butane (propellant blend)	106-97-8	data not available	data not available	data not available
Propane (propellant blend)	74-98-6	data not available	data not available	data 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	data not available
Propane (propellant blend)	74-98-6	data 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	data not available	data not available
Propane (propellant blend)	74-98-6	data not available	data 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	data not available
Propane (propellant blend)	74-98-6	data not available

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

- 12.6 ENDOCRINE DISRUPTING PROPERTIES:** None known

- 12.7 OTHER ADVERSE EFFECTS:** No additional information available.

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

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

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 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:

Product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE MIXTURE**

Does not contain substances or labelled product uses subject to REACH Annex XVII restriction.
See Annex XVII of Regulation (EC) 1907/2006 for Designation of the substances and Conditions of restriction.
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no substance subject to EU 649/2012
Contains no substance subject to EU 2019/1021

15.2 CHEMICAL SAFETY ASSESSMENT:

No information available.

SECTION 16: OTHER INFORMATION**REVISION INFORMATION:**

13-Dec-2022 - Revisions per (EU) 2020/878; § 1, 2, 3, 8, 9, 11, 12, 14, 15 & 16

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

ABBREVIATIONS:

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute Toxicity Estimate
CAS No.	Chemical Abstract Service Number
CLP	Classification Labeling Packaging Regulation (EC) 1272/2008
EC50	Median Effective Concentration.
EC No.	European Union Identification Number
IMO	International Maritime Organization
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation, (EC) 1907/2006
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TWA	Time Weighted Average
UFI	Unique Formula Identifier
UN	United Nations
VOC	Volatile Organic Compound
vPvB	Very Persistent and Very Bioaccumulative

CLASSIFICATION ACCORDING TO EC 1272/2008:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008:		
Aerosols - Category 3	H229	On basis of test data, Expert judgement
Skin Corrosion - Category 1	H314	Calculation method
Eye Damage - Category 1	H318	Calculation method
Corrosive to Metals	H335	On basis of test data, Expert judgement



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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+P313 If eye irritation persists: Get medical advice/attention.
- P403 Store in a well-ventilated place.
- P405 Store locked up.
- P501 Dispose of contents/container according to local, regional and national regulations.

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation

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