



SAFETY DATA SHEET

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

Issued: 3 Nov 2022

Supersedes: 23 Feb 2021

FORMULA X™ UHP STRIPPER

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

1.1 PRODUCT IDENTIFIER

Product Name: Formula X UHP (Ultra High Performance) Stripper Product Number: 503L5
UFI: FHDX-KEUV-A10J-Y7RC

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

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.
Corrosive to Metals - Category 1
Acute toxicity (Inhalation) - Category 4
Skin Corrosion - Category 1
Eye Damage - Category 1
Specific Target Organ Toxicity, Single Exposure (Respiratory tract irritation) - Category 3

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictograms:



Contains: Butoxyethanol, Ethanolamine

Hazard Statements:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary Statements:

P260 Do not breathe mist.
P280 Wear protective gloves, eye protection and face 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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a doctor/physician or Poison Centre.

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.	REACH No.	Classification	
					Hazard Class	Hazard Statement(s)*
2-Butoxyethanol	203-905-0	20 - < 30	111-76-2	01- 2119475108-36	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302, H332 H319 H315
3-Butoxypropan-2-ol	225-878-4	10 - < 20	5131-66-8	01- 2119475527-28	Eye Irrit 2 Skin Irrit 2	H319 H315
2-Aminoethanol	205-483-3	5 - < 10	141-43-5	01- 2119486455-28	Acute Tox 4 Skin Corr 1B Eye Dam 1 STOT SE 3 AquaChron3	H302, H312, H332 H314 H318 H335 H412
Sodium cumenesulfonate	239-854-6	1 - < 5	15763-76-5	01- 2119489411-37	Eye Irrit 2	H319
Potassium 4-isopropylbenzenesulphonate	629-764-9	1 - < 5	164524-02-1	01- 2119489427-24	Eye Irrit 2	H319

*See section 16 for the full text of Hazard Statements

Ingredient	EC No.	CAS No.	Specific Concentration Limits ATE**
2-Butoxyethanol	203-905-0	111-76-2	ATE (oral) 1200 mg/kg
2-Aminoethanol	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:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
- Inhalation:** If experiencing respiratory symptoms: Allow affected person to breathe fresh air. Get medical advice/attention if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye Contact:** Causes serious eye damage.
- Skin Contact:** Causes severe burns.
- Inhalation:** Harmful if inhaled.
- Ingestion:** May cause irritation of the linings of the mouth, throat, and gastrointestinal tract. May be harmful if swallowed.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of any doubt or when irritation occurs or persists seek medical advice. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

All known extinguishants can be used.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

The product itself does not maintain combustion.



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5.3 ADVICE FOR FIRE FIGHTERS

Use fire fighting measures that suit the environment. 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.
Material spilled on hard surface can present a serious slipping/falling hazard.

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

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 - Personal precautions
Refer to Section 7 of the SDS - Precautions in handling and storage
Refer to Section 13 of the SDS - Waste disposal recommendations

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 reuse.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed. Keep from freezing. Store in original container. Store in corrosion resistant container with a resistant inner liner. 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 ³	ppm	mg/m ³	
2-Butoxyethanol (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
	NL - Grensaaarde TGG	20	100	50	246	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	
2-Aminoethanol (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
	NL - Grensaaarde TGG	-	2.5	-	7.6	H
	NO Administrative Norm	1	2.5	-	-	H
	EH40	1	2.5	3	7.6	Skin



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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 or face protection.
Safety glasses or goggles (EN166).

Hand Protection: Wear chemical resistant gloves. (EN374).
Long-term or submersion protection: Use Nitrile gloves with a thickness of at least 0.31 mm (thickness dependent on glove type and quality) for a breakthrough time of up to 480 minutes.
Short-term (≤ 30 min) or splash protection: Use Nitrile gloves with a thickness of at least 0.12 mm (thickness dependent on glove type and quality) for a breakthrough time of at least 30 min.
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.

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)

Other information: Do not eat, drink, or smoke when using this product. Avoid contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear, colorless
Odour:	No added fragrance. Characteristic odor according to raw materials.
Melting point/Freezing point:	< -12 °C
Boiling point/Boiling range:	± 101 °C
Flammability:	Does not maintain combustion.
Lower and upper explosion limits:	No test data available
Flash Point:	> 93 °C
Auto-ignition temperature:	No test data available
Decomposition temperature:	No test data available
pH:	12 - 13
Kinematic viscosity:	< 10 mm ² /s
Solubility:	Water, completely soluble
Partition coefficient n-octanol/water [log Pow]:	0.08 (calculated value)
Vapor pressure:	23.1 hPa
Density:	0.99 g/cm ³
Relative vapor density:	No test data available
Particle characteristics:	Not applicable to liquids

9.2 OTHER INFORMATION

9.2.1 - Information with regard to physical hazard class:

Oxidising properties:	Not established
Explosive properties:	Not established

9.2.2 - Other safety characteristics:

Relative evaporation rate (butylacetate=1):	< 1
VOC content:	42%

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:	Stable under normal conditions. Reacts exothermically with acids: release of heat.
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- 10.2 CHEMICAL STABILITY:** Stable under normal conditions.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** None under normal conditions.
Reacts exothermically with acids: release of heat.
- 10.4 CONDITIONS TO AVOID:** None under normal conditions.
- 10.5 INCOMPATIBLE MATERIALS:** Acids.
Do not mix with other chemicals unless stated on the product label.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal conditions.

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.
- ATE_{mix} (oral) - > 2000 mg/kg Not Classified.
- ATE_{mix} (dermal) - > 2000 mg/kg Not Classified
- ATE_{mix} (inhalation) - 4.703 mg/l (mist) Harmful if inhaled.

Component	CAS #	LD50 Oral	LD50 Dermal	LC50 Inhalation (Dust/Mist)
2-Butoxyethanol	111-76-2	ATE = 1200 mg/kg	> 2000 mg/kg	data not available
3-Butoxypropan-2-ol	5131-66-8	5660 mg/kg	> 2000 mg/kg	> 3.5 mg/l
2-Aminoethanol	141-43-5	1720 mg/kg	1500 mg/kg	data not available
Potassium 4-isopropylbenzene sulphonate	164524-02-1	> 2000 mg/lg	2000 mg/kg	> 5 mg/l
Sodium cumenesulfonate	15763-76-5	> 2000 mg/kg	2000 mg/kg	> 5 mg/l

- SKIN CORROSION/IRRITATION:** Classified as Skin Corrosive - Category 1
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:** Classified as STOT-SE - Category 3
May cause respiratory irritation.
- 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:** No additional information available

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 TOXICITY:** Ecological testing has not been completed on the mixture.
Based on criteria 4.1.3 of (EC) 1272/2008 this product is not dangerous to the environment.
Component details are given below:

Component	CAS #	LC50 fish (96 h)	EC50 Daphnia (48 h)	EC50 algae (72 h)
2-Butoxyethanol	111-76-2	1474 mg/ml	1550 mg/l	911 mg/l
3-Butoxypropan-2-ol	5131-66-8	560-1000 mg/ml	>1000 mg/l	560 mg/l
2-Aminoethanol	141-43-5	349 mg/ml	65 mg/l	2.5 mg/l
Potassium 4-isopropylbenzene sulphonate	164524-02-1	>100 mg/ml	1000 mg/l	230 mg/l
Sodium cumenesulfonate	15763-76-5	>100 mg/ml	1000 mg/l	230 mg/l

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FORMULA X™ UHP STRIPPER**12.2 PERSISTENCE AND DEGRADABILITY:** Testing has not been completed on the mixture.

Component	CAS #	Biodegradation
2-Butoxyethanol	111-76-2	readily biodegradable
3-Butoxypropan-2-ol	5131-66-8	readily biodegradable
2-Aminoethanol	141-43-5	> 90% readily biodegradable
Potassium 4-isopropylbenzene sulphonate	164524-02-1	readily biodegradable
Sodium cumenesulfonate	15763-76-5	readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL:

Product / Component	CAS #	Partition coefficient n-octanol/water (Log Pow)
Eclipse Formula X UHP Stripper	mixture	± 0.08 (calculated value)
2-Butoxyethanol	111-76-2	0.81
3-Butoxypropan-2-ol	5131-66-8	1.2
2-Aminoethanol	141-43-5	-2.3 - -1.31
Potassium 4-isopropylbenzene sulphonate	164524-02-1	-1.1
Sodium cumenesulfonate	15763-76-5	-1.1

12.4 MOBILITY IN SOIL: Testing has not been completed on the mixture.**12.5 RESULTS OF PBT AND vPvB ASSESSMENT:**

Eclipse Formula X UHP Stripper	This mixture does not meet the PBT criteria of REACH regulation, Annex XIII. This mixture does not meet vPvB criteria of REACH regulation, Annex XIII.
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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 03 05* - organic wastes containing hazardous substances

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN NUMBER:** UN3267
14.2 UN PROPER SHIPPING NAME: Corrosive liquid, basic, organic, n.o.s. (Mixture; 2-aminoethanol)
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. SW2.
Marine Pollutant: None

ADR/RID

Transport category: 3
Item Number: 80
Classification Code: C7

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS: Product is not transported in bulk.

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FORMULA X™ UHP STRIPPER**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:**

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

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:		
Met. Corr. 1	H290	On basis of test data
Acute Tox. 4 (Inhalation)	H332	Calculation method
Skin Corr. 1A	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
STOT SE 3	H335	Calculation method

FULL TEXT OF HAZARD STATEMENTS:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264	Wash thoroughly after handling.
P321	Specific treatment (see ... on this label).
P337+313	If eye irritation persists: Get medical advice/attention.
P234	Keep only in original container.
P363	Wash contaminated clothing before reuse.



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- P390 Absorb spillage to prevent material damage.
- P405 Store locked up.
- P406 Store in a corrosive resistant container with a resistant inner liner.

ISSUED BY:

Chemical/R&D Department
Amano Pioneer Eclipse Corporation

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