



# SAFETY DATA SHEET

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

Issued: 23-Feb-2021

Supersedes: 24-May-2017

## 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

#### 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 1A  
Eye Damage - Category 1  
Specific Target Organ Toxicity, Single Exposure (Respiratory tract irritation) - Category 3

#### 2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictograms:



Hazard Statements:

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

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, H312, 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	H302, H312, H332 H314
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
2-aminoethanol	205-483-3	141-43-5	(5 ≤ C ≤ 100) STOT SE 3, H335

### 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

Fire Hazard: Will ignite if exposed to intensive heat.



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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. High temperature decomposition products are harmful by inhalation

## 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>	
2-butoxyethanol	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 - Grensuarde 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>	
2-aminoethanol	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 - Grensuarde 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 ( $\leq 30$  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.

**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)

**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

Appearance:	clear, colorless, liquid
Odor:	No added fragrance. Characteristic odor according to raw materials.
Odor Threshold:	No test data available
pH:	12 - 13
Melting Point/Freezing Point:	$< -12$ °C
Initial boiling point/boiling range:	$\pm 101$ °C
Flash Point:	$> 93$ °C
Evaporation Rate:	$< 1$ (butyl acetate = 1)
Flammability (solid, gas)	Not applicable to liquids
Upper/lower flammability/explosive limits:	No test data available
Vapor Pressure:	$\pm 23.1$ hPa
Vapor Density:	No test data available
Relative Density:	$\pm 0.99$ kg/L @ 20°C
Solubility:	completely soluble in water
Partition Coefficient (n-octanol/water):	$\pm 0.08$ (calculated value)
Auto Ignition temperature:	No test data available
Decomposition Temperature:	No test data available
Viscosity:	$< 10$ mPa.s
Explosive Properties:	No test data available
Oxidizing properties:	No test data available

#### 9.2 OTHER INFORMATION

VOC content:  $\pm 42\%$

### SECTION 10: STABILITY AND REACTIVITY

**10.1 REACTIVITY:** Stable under normal conditions. Reacts exothermically with acids: release of heat.

**10.2 CHEMICAL STABILITY:** Stable under normal conditions.



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- 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 TOXICOLOGICAL EFFECTS

- ACUTE TOXICITY:** Toxicity testing has not been completed on the mixture.
- ATE<sub>mix</sub> (oral) - > 2000 mg/kg Not Classified.
- ATE<sub>mix</sub> (dermal) - > 2000 mg/kg Not Classified
- ATE<sub>mix</sub> (inhalation) - 4.703 mg/l (mist) Harmful if inhaled.

Component	CAS #	LD50 Oral-Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation- (mg/l)
2-butoxyethanol	111-76-2	1300	>2000	guinea pig (1hr), >3.1
2-aminoethanol	141-43-5	1720	1500	rat (4hr), >1.3
propylene glycol monobutyl ether	5131-66-8	5660	> 2000	rat (4hr), >3.5
1-(2-butoxy-1-methlethox)-2-propanol	29911-28-2	4000	> 2000	rat (4hr), 2040 mg/m <sup>3</sup>
potassium 4-isopropylbenzene sulphonate	164524-02-1	> 2000	2000	rat (232min), >5
sodium cumenesulfonate	15763-76-5	> 2000	2000	rat (232min), >5

- SKIN CORROSION/IRRITATION:** Classified as Skin Corrosive - Category 1A  
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 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. Based on criteria 4.1.3 of (EC) 1272/2008 this product is not dangerous to the environment.

Component	CAS #	LC50 fish 1	LC50 - 48 hr	EC50 - 72 hr
2-butoxyethanol	111-76-2	1474 mg/ml	Daphnia magna, 1550 mg/l	algae, 911 mg/l
2-aminoethanol	141-43-5	349 mg/ml	Daphnia magna, 65 mg/l	algae, 15 mg/l
propylene glycol monobutyl ether	5131-66-8	560-1000 mg/ml	Daphnia magna, >1000 mg/l	algae, 560 mg/l
1-(2-butoxy-1-methlethox)-2-propanol	29911-28-2	841 mg/ml	Other aquatic organism, >1000 mg/l	algae, (IC50) >100 mg/l
potassium 4-isopropylbenzene sulphonate	164524-02-1	>100 mg/ml	Daphnia magna, > 100 mg/l	algae, (IC50) >100 mg/l
sodium cumenesulfonate	15763-76-5	>100 mg/ml	Daphnia magna, > 100 mg/l	algae, (IC50) >100 mg/l

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

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Component	CAS #	Biodegradation
2-butoxyethanol	111-76-2	readily biodegradable
propylene glycol monobutyl ether	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
propylene glycol monobutyl ether	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:** No additional information available.**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 OTHER ADVERSE EFFECTS:** No additional information available.**12.7 ADDITIONAL INFORMATION:** 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: 20 01 29\* - detergents containing dangerous 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

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**FORMULA X™ UHP STRIPPER****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**

Contains no substances with Annex XVII restrictions  
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

Detergent Regulation: Labeling of contents

Component	%
non-ionic surfactants	< 5%

**15.2 CHEMICAL SAFETY ASSESSMENT:** No information available.**SECTION 16: OTHER INFORMATION****REVISION INFORMATION:**

23 February 2021 - Revisions § 2, 3, 4, 5, 7, 8, 9, 11, 12, 14, 15 &amp; 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.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

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

**Classification according to Regulation (EC) No.1272/2008 [CLP]:**

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

**ISSUED BY:**

Chemical/R&D Department  
Amano Pioneer Eclipse Corporation