

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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

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: 503

1.2 RELEVENT 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.

F305+F301+F305 IF ON SKIII (OF Hair). Take Of infinitediately all contaminated clothing. Kinse skiii with water/sho

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



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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

				Classification	
Ingredient	EC No.	Weight %	CAS No.		Hazard
				Hazard Class	Statement(s)*
				Acute Tox 4	H302,H312,H332
ethylene glycol monobutyl ether	203-905-0	10 - 30	111-76-2	Eye Irrit 2	H319
				Skin Irrit 2	H315
				Acute Tox 4	H302,H312,H332
ethanolamine	205-483-3	5 - 10	141-43-5	Skin Corr 1B	H314
				STOT SE 3	H335
propulano alvad manahutul athar	225 070 4	F 40	E404 CC 0	Eye Irrit 2	H319
propylene glycol monobutyl ether	225-878-4	5- 10	5131-66-8	Skin Irrit 2	H315

^{*}See section 16 for the full text of Hazard Statements

SECTION 4: FIRST AID MEASURES

4.1 DECRIPTION 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: Can cause serious eye damage. May cause permanent damage. Skin Contact: Can cause severe 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, CO₂, Nitrogen oxides

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.



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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

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 reuse.

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)
ingredient	Source	ppm	mg/m ³	ppm	mg/m³	Note(s)
	ACGIH TLV	20	97	-	-	BEI
	DE (TRGS 900)	-	-	10	49	H,Y, AGS
ethylene glycol monobutyl ether	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	Н
	FH40	25	123	50	246	Sk BMGV

Ingredient	Source	TWA (8hours)		STEL (Short term)		Note(s)
lligredient	Source	ppm	mg/m³	ppm	mg/m³	Note(s)
	ACGIH TLV	3	7.5	6	15	-
	DE (TRGS 900)	-	-	2	5.1	H,Y,Sh
ethanolamine	DK - At-Vejledning Stoffer og materialier- C.0.1	1	2.5	-	-	Н
	EU (2006/15/EC)	1	2.5	3	7.6	Skin
	NO Administrative Norm	1	2.5	-	-	Н
	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).



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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

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.

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, liquid

Odor: slight citrus

Odor Threshold: No test data available

pH: 12.2 [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:

Flammability (solid, gas)

Upper/lower flammability/explosive limits:

Vapor Pressure:

Vapor Density:

No test data available

No test data available

No test data available

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):

Auto Ignition temperature:

No test data available

No test data available

No test data available

Viscosity: < 5 centipoise @ 20°C [Method: Rotational viscometer, Brookfield)

Explosive Properties: none
Oxidizing properties: none

9.2 OTHER INFORMATION

VOC: 42%(as supplied), 8.2%(1:4), 4.6%(1:8), 2.4%(1:16)

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.

 $\label{eq:attack} \text{ATE}_{\,\,\text{mix}}\,\text{(oral)} - \\ > 2000\,\,\text{mg/kg} \qquad \qquad \text{Based on available data, the classification criteria are not met.}$

ATE $_{mix}$ (dermal) - > 2000 mg/kg ATE $_{mix}$ (inhalation) - > 20 mg/l (vapour)





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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

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
propylene glycol monobutyl ether	5131-66-8	5660	> 2000	rat (4hr), >3.5

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: 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.

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
propylene glycol monobutyl ether	5131-66-8	vertebrate, 560-1000 mg/ml	Daphnia magna, >1000 mg/l	algae, 560 mg/l

12.2 PERSISTANCE 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
propylene glycol monobutyl ether	5131-66-8	readily biodegradable

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

		Partition coefficient n-	
Component	CAS#	octanol/water (Log Kow)	Bioconcentration factor (BCF)
		KOW)	(BCF)
ethylene glycol monobutyl ether	111-76-2	0.81	< 100
ethanolamine	141-43-5	-1.91	< 100
propylene glycol monobutyl ether	5131-66-8	1.2	< 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
propylene glycol monobutyl ether	5131-66-8	1.3 - 6



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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

12.5 RESULTS OF PBT AND vPvB ASSESSMENT: Not applicable

12.6 OTHER ADVERSE EFFECTS: None known

12.7 ADDITIONAL INORMATION: 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*

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 B. 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. 22, 2016 - Revisions Section 2.2, 10.5, 11.1, 16.

ABBREVIATIONS:

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

IN/E - INOL 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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.



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

Issued: Sept. 22, 2016 Supersedes: May 17, 2016

FORMULA X™ UHP

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P264 Wash thoroughly after handling.

P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see ... on this label).

P337+313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation