

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

Product Number:

Issued: 31 Oct 2022

Supersedes: 21 Sept 2020

LASERSHOT™

323L5

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

1.1 PRODUCT IDENTIFIER

Product Name: LaserShot Spray & Wipe Degreaser

UFI: XRVU-2WC0-R00K-350F

1.2 RELEVENT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST

Product intended for commercial and industrial use only.

Intended Use: Water-based degreaser 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 (oral) - Category 4
Acute toxicity (inhalation) - Category 4
Skin Corrosion - Category 1

Skin Corrosion - Category 1 Eye Damage - Category 1

Specific Target Organ Toxicity (Single Exposure) - Category 3

2.2 LABEL ELEMENTS

Signal Word: Danger

Hazard pictograms:



Contains: Butoxyethanol, Ethanolamine

Hazard Statements:

H290 May be corrosive to metals. H302 Harmful if swallowed. H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary Statements:

P234 Keep only in original packaging.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor.

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.

2.3 OTHER HAZARDS

No other hazards are known to the supplier

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1/3.2 SUBSTANCES/MIXTURES

					Classification	
Ingredient	EC No.	Weight % CAS No.		REACH No.	Hazard Class	Hazard Statement(s)*
2-Butoxyethanol	203-905-0	30 - < 50	111-76-2	01- 2119475108- 36	Acute Tox 4	H302, H332 H319 H315
2-Aminoethanol	205-483-3	10 - < 20	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
Lauramine oxide	931-292-6	0.1 - < 1	308062-28-4	01- 2119490061- 47	Acute Tox 4 Skin Irrit 2 Eye Dam 1 AquaAcute1 AquaChron2	H302 H315 H318 H400 H411
Sodium hydroxide	215-185-5	0.1 - < 1	1310-73-2	01- 2119457892- 27	Met Corr 1 Skin Irrit 2 Eye Irrit 2	H290 H315 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
Sodium hydroxide	215-185-5 1310-73-2 (2 ≤C< 5) Skin Corr 1B (H314)		(0.5 ≤C< 2) Eye Irrit 2 (H319), Skin Irrit 2 (H315) (2 ≤C< 5) Skin Corr 1B (H314) (5 ≤C< 100) Skin Corr 1A (H314)

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

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. Skin Contact: Can cause severe skin burns.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed. May cause irritation or burns to mouth, throat and gastrointestinal tract.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically. 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



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SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

In case of fire: All known extinguishants can be used.

5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE

The product itself does not maintain combustion.

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. 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

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. Store in original container.

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/m ³	Note(s)
	ACGIH TLV	20	97	-	-	BEI
	DE (TRGS 900)	1	-	10	49	H,Y, AGS
2-Butoxyethanol CAS# 111-76-2	DK - At-Vejledning Stoffer og materialier- C.0.1	20	98	1	-	EH
	EU (2000/39/EC)	20	98	50	246	Skin
	NO – Forskrift, best.nr. 704	1	-	10	50	Н
	IE - HSA, CoP (2016)	20	98	50	246	Sk, IOELV
	NL - Grenswaarde TGG	20	100	50	246	Н
	EH40	25	123	50	246	Sk, BMGV



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Ingredient	Source	3) AWT	WA (8hours) STEL (Short ter		nort term)	Note(s)	
ingredient	Source	ppm	mg/m ³	ppm	mg/m ³	Note(s)	
	ACGIH TLV	3	7.5	6	15	-	
	DE (TRGS 900)	-	-	2	5.1	H,Y,Sh	
2-Aminoethanol CAS# 141-43-5	DK - At-Vejledning Stoffer og materialier- C.0.1	1	2.5	ı	-	Н	
	EU (2006/15/EC)	1	2.5	3	7.6	Skin	
	NO Administrative Norm	1	2.5	-	-	Н	
	IE - HSA, CoP (2016)	2	2.5	3	7.6	Sk, IOELV	
	NL - Grenswaarde TGG	1	2.5	-	7.6	Н	
	EH40	1	2.5	3	7.6	Skin	

Ingredient	Source	TWA (8	Bhours)	STEL (SI	nort term)	Note(s)	
ingredient	Source	ppm	mg/m ³	ppm	mg/m ³	Note(s)	
	ACGIH TLV	-	-	-	2	Ceiling	
Sodium hydroxide	DK - At-Vejledning Stoffer og materialier- C.0.1	1	1	1	2	L	
CAS# 1310-73-2	EU (2000/39/EC)	-	-	-	2	Т	
	NO – Forskrift, best.nr. 704	-	-	-	2	Т	
	EH40	-	-	-	2		

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).

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)

Handle in accordance with good industrial hygiene and safety practice.

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: Liquid
Colour: Dark red
Odour: Pine. Eucalyptus.

Melting point/Freezing point: < -8 °C
Boiling point/Boiling range: > 101 °C

Flammability: Does not maintain combustion.

Lower and upper explosion limits: No test data available



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Flash Point: > 65 °C

Auto-ignition temperature: No test data available Decomposition temperature: No test data available

pH: 12.5 - 13
Kinematic viscosity: < 10 mm²/s

Solubility: Water, completely soluble Partition coefficient n-octanol/water [log Pow]: 0.04 (calculated value)

Vapor pressure: 23.16 hPa
Density: 0.99 g/cm³

Relative vapor density:

Particle characteristics:

No test data available

Not applicable to liquids

9.2 OTHER INFORMATION

9.2.1 - Information with regard to physical hazard class:

Oxidising properties:

Explosive properties:

Not established

Not established

9.2.2 - Other safety characteristics:

Relative evaporation rate (butylacetate=1): < 1 VOC: 49.95%

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY: Reacts exothermically with acids: release of heat.

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 known

10.5 INCOMPATIBLE MATERIALS: Acids. Do not mix with other chemicals unless stated on the product label.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: None known

SECTION 11: TOXICOLOGICAL INFORMATION

.1 INFORMATION ON HAZARD CLASSES AS DEFINED BY REGULATION (EC) 1272/2008

ACUTE TOXICITY: Toxicity testing has not been completed on the mixture.

Harmful if swallowed. Harmful if inhaled.

ATE _{mix} (oral): 1271 mg/kg Classified as Acute Toxicity (Oral) - Category 4

ATE $_{mix}$ (dermal): > 2000 mg/kg Toxicity Classification criteria is not met.

ATE _{mix} (inhalation): 3.0 mg/l/4h Classified as Acute Toxicity (Inhalation) - Category 4

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
2-aminoethanol	141-43-5	1720 mg/kg	1500 mg/kg	data not available
lauramine oxide	308062-28-4	1080 mg/kg	data not available	data not available
sodium hydroxide	1310-73-2	> 191 ma/ka	data not available	data not available

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.





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STOT-SINGLE EXPOSURE: Classified as STOT-SE - Category 3

May cause respiratory irritation.

STOT-REPEATED EXPOSURE: 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.

According to the criteria of 4.1.3 from (EC) 1272/2008 this product is not dangerous for the environment.

Components details are given below:

Component	CAS#	LC50 fish (96 h)	EC50 Daphnia (48 h)	EC50 algae (72 h)
2-butoxyethanol	111-76-2	1474mg/ml	1550 mg/l	911 mg/l
2-aminoethanol	141-43-5	349 mg/ml	65 mg/l	2.5 mg/l
lauramine oxide	308062-28-4	10.5 mg/l	>1 mg/l	> 0.01 mg/l
sodium hydroxide	1310-73-2	35 mg/l	40.4 mg/l	data not available

12.2 PERSISTANCE AND DEGRADABILITY:

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
2-aminoethanol	141-43-5	> 90% readily biodegradable
lauramine oxide	308062-28-4	90% readily biodegradable

12.3 BIOACCUMULATIVE POTENTIAL:

Product / Component	CAS#	Partition coefficient n-octanol/water (Log Pow)
LaserShot Spray & Wipe Degreaser	mixture	-0.04 (calculated)
2-butoxyethanol	111-76-2	0.81
2-aminoethanol	141-43-5	-2.31.31
lauramine oxide	308062-28-4	0.93
sodium hydroxide	1310-73-2	-3.88

12.4 MOBILITY IN SOIL: No additional information available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

LaserShot Spray & Wipe Degreaser	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.

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: 20 01 29* - detergents containing dangerous substances

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SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER: UN3267

14.2 UN PROPER SHIPPING NAME: Corrosive liquid, basic, organic, 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:

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 Handling: Category A. SW2. Segregation: SGG18. SG35.

Marine Pollutant: None

ADR/RID

Class: 8
Item Number: 80
Classification Code C7

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

Detergent Regulation: 648/2004

Labeling of contents

Component	%
non-ionic surfactants	< 5%
perfumes	
limonene	

The surfactants contained in this preparation comply with the biodegradability criteria 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 the detergent manufacturer.

No additional national regulations are known to the supplier.

15.2 CHEMICAL SAFETY ASSESSMENT: No information available.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

31 Oct 2022 - Revisions per (EU) 2020/878; § 1, 2, 3, 5, 9, 11, 12, 14 & 16

ABBREVIATIONS:

ATE Acute Toxicity Estimate

CAS No. Chemical Abstract Service Number

CLP Classification Labeling Packaging Regulation (EC) 1272/2008



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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 mixture:				
Met. Corr. 1	H290	On basis of test data		
Acute Tox. 4 (Oral)	H302	Calculation method		
Acute Tox. 4 (Inhalation: dust, mist)	H332	Calculation method		
Skin Corr. 1	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:

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

FULL TEXT OF PRECAUTIONARY STATEMENTS:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see ... on this label).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

P403+P233 Store in well ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in a corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

ISSUED BY:

Chemical/R&D Department

Amano Pioneer Eclipse Corporation



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