



**SAFETY DATA SHEET**

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

Issued: 21 Sept 2020

Supersedes: 24 April 2018

**LASERSHOT™****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	30 - < 50	111-76-2	01- 2119475108- 36	Acute Tox 4 Eye Irrit 2 Skin Irrit 2	H302,H312,H332 H319 H315
2-aminoethanol	205-483-3	10 - < 20	141-43-5	01- 2119486455- 28	Acute Tox 4 Skin Corr 1A 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
2-aminoethanol	205-483-3	141-43-5	(5 ≤ C ≤ 100) STOT SE 3, H335
sodium hydroxide	215-185-5	1310-73-2	(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)

**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:** 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

**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. Materials can splatter above 100°C/212°F. Corrosive material.



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## 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 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)
		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
	IE - HSA, CoP (2016)	20	98	50	246	Sk, IOELV
	NL - Grenswaarde 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
	NO Administrative Norm	1	2.5	-	-	H
	IE - HSA, CoP (2016)	2	2.5	3	7.6	Sk, IOELV
	NL - Grenswaarde TGG	-	2.5	-	7.6	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 <sup>3</sup>	ppm	mg/m <sup>3</sup>	
sodium hydroxide	ACGIH TLV	-	-	-	2	Ceiling
	DK - At-Vejledning Stoffer og materialier- C.0.1	-	-	-	2	L
	EU (2000/39/EC)	-	-	-	2	T
	NO – Forskrift, best.nr. 704	-	-	-	2	T
	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

Appearance:	dark red liquid
Odor:	Pine. Eucalyptus.
Odor Threshold:	No test data available
pH:	12.5 - 13
Melting Point/Freezing Point:	< -8 °C
Initial boiling point/boiling range:	> 101 °C
Flash Point:	> 65 °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:	± 23.16 hPa.=
Vapor Density:	No test data available
Relative Density:	0.99 kg/L @ 20°C
Solubility:	miscible in water
Partition Coefficient (n-octanol/water):	0.04 (calculated value)
Auto Ignition temperature:	No test data available
Decomposition Temperature:	No test data available
Viscosity:	< 10 mPa.s
Explosive Properties:	none
Oxidizing properties:	none

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**LASERSHOT™****9.2 OTHER INFORMATION**

VOC: ±50 % (as supplied)

**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****11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

**ACUTE TOXICITY:** Toxicity testing has not been completed on the mixture.  
Harmful if swallowed. Harmful if inhaled.

ATE<sub>mix</sub> (oral) - 1271 mg/kg Classified as Acute Toxicity (Oral) - Category 4ATE<sub>mix</sub> (inhalation) - 3.0 mg/l/4h Classified as Acute Toxicity (Inhalation) - Category 4

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, >3.1, 1hr
2-aminoethanol	141-43-5	1720	1500	rat, > 1.3, 4hr
lauramine oxide	308062-28-4	1080	data not available	data not available
sodium hydroxide	1310-73-2	> 191	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.

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

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

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**LASERSHOT™****12.2 PERSISTENCE 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	-2.3 - -1.31
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.
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**12.6 OTHER ADVERSE EFFECTS:** None known**12.7 ADDITIONAL INFORMATION:** 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 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. (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



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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: 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:

21 Sept 2020 - Revisions § 2, 3, 4, 9, 11, 12, 14, 15 & 16

### ABBREVIATIONS:

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

### FULL TEXT OF HAZARD STATEMENTS:

H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye 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.



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### 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

### ISSUED BY:

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