

**ADMR203 - LYSONOX ULTRASHIELD**

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Code: ADMR203  
Product name: LYSONOX ULTRASHIELD  
UFI: X630-P040-H008-43J6

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use: Ready to use disinfectant for Medical Devices

Identified Uses	Industrial	Professional	Consumer
Professional uses	-	✓	-
Uses Advised Against			

Do not use for uses other than those indicated

**1.3. Details of the supplier of the safety data sheet**

Name: ADRANOX SRL  
Full address: Via Imre Nagy, 46  
District and Country: 46100 Mantova (MN) Italia  
Tel. +39 0376 405362  
Fax +39 0376 446392  
e-mail address of the competent person responsible for the Safety Data Sheet: adranox@adranox.com

**1.4. Emergency telephone number**

For urgent inquiries refer to:  
National Poisons Information Centre  
Beaumont Hospital, Beaumont, Dublin 9., Ireland  
chemicalsinfo (at) beaumont.ie  
<https://www.poisons.ie/>

### SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**


The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2

H319

Causes serious eye irritation.

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## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.

Precautionary statements:

**P280** Wear eye protection / face protection.

**P337+P313** If eye irritation persists: Get medical advice / attention.

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.


The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>ETHANOL</b>		
CAS 64-17-5	$8,5 \leq x < 10$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
INDEX 603-002-00-5		
REACH Reg. 01-2119457610-43-0000		
<b>HYDROGEN PEROXIDE SOLUTION</b>		
CAS 7722-84-1	$5 \leq x < 6$	Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: B
EC 231-765-0		Ox. Liq. 1 H271: $\geq 70\%$ , Skin Corr. 1A H314: $\geq 70\%$ , Skin Corr. 1B H314: $\geq 50\%$ , Skin Irrit. 2 H315: $\geq 35\%$ , Eye Dam. 1 H318: $\geq 8\%$ , Eye Irrit. 2 H319: $\geq 5\%$ , STOT SE 3 H335: $\geq 35\%$
INDEX 008-003-00-9		LD50 Oral: 1193 mg/kg, ATE Inhalation vapours: 11 mg/l

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REACH Reg. 01-2119485845-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### HYDROGEN PEROXIDE SOLUTION

Unsuitable extinguishing media

Avoid using organic compounds.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.


### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)


Information not available


## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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TLV-ACGIH		ACGIH 2022							
ETHANOL									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	380	200	1520	800				
MAK	DEU	380	200	1520	800				
VLA	ESP			1910	1000				
VLEP	FRA	1900	1000	9500	5000				
WEL	GBR	1920	1000						
TLV-ACGIH				1884	1000				
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,96	mg/l				
Normal value in marine water				0,79	mg/l				
Normal value for fresh water sediment				3,6	mg/kg				
Normal value for marine water sediment				2,9	mg/kg				
Normal value of STP microorganisms				580	mg/l				
Normal value for the food chain (secondary poisoning)				0,72	g/kg				
Normal value for the terrestrial compartment				0,63	mg/kg				
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers				Effects on workers			
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral					87 mg/kg bw/d				
Inhalation					114 mg/m3		1900 mg/cm3		950 mg/m3
Skin					206 mg/kg bw/d				343 mg/kg
HYDROGEN PEROXIDE SOLUTION									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU	0,71	0,5	0,71	0,5				
VLA	ESP	1,4	1						
VLEP	FRA	1,5	1						
WEL	GBR	1,4	1	2,8	2				
TLV-ACGIH		1,4	1						
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,013	mg/l				
Normal value in marine water				0,013	mg/l				
Normal value for fresh water sediment				0,047	mg/kg				
Normal value for marine water sediment				0,047	mg/kg				
Normal value for water, intermittent release				0,014	mg/l				

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Normal value of STP microorganisms				4,66	mg/l			
Normal value for the terrestrial compartment				0,002	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	3 mg/m3		0,21 mg/m3		1,93 mg/m3		1,4 mg/m3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

## 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Not necessary for normal use. If needed, wear airtight protective goggles (see standard EN ISO 16321).


### RESPIRATORY PROTECTION

Not necessary for normal use. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	straw yellow	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
pH	5	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,990 - 1,010 g/ml	
Relative vapour density	not available	
Particle characteristics	not applicable	

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

Information not available

## SECTION 10. Stability and reactivity


### 10.1. Reactivity

HYDROGEN PEROXIDE SOLUTION

Decomposes if exposed to: light,heat.Decomposes on contact with: alkaline metals.Possibility of explosion.

### 10.2. Chemical stability

Information not available

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### 10.3. Possibility of hazardous reactions

The product may react violently with water.

ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

ETHANOL

Avoid exposure to: high temperatures,ignition sources.

HYDROGEN PEROXIDE SOLUTION

Avoid exposure to: light,heat.Avoid contact with: alkaline substances.

### 10.5. Incompatible materials

HYDROGEN PEROXIDE SOLUTION

Incompatible with: acids,bases,metals,heavy metals salts,reducing agents.

### 10.6. Hazardous decomposition products

HYDROGEN PEROXIDE SOLUTION

May develop: oxygen.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.


#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008


Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure



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<div>Information not available</div> <div><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></div> <div>Information not available</div> <div><u>Interactive effects</u></div> <div>Information not available</div> <div>ACUTE TOXICITY</div> <div> <div>ATE (Inhalation - vapours) of the mixture:</div> <div>ATE (Oral) of the mixture:</div> <div>ATE (Dermal) of the mixture:</div> <div>&gt; 20 mg/l</div> <div>&gt;2000 mg/kg</div> <div>Not classified (no significant component)</div> </div> <div>ETHANOL</div> <div> <div>LD50 (Dermal):</div> <div>LD50 (Oral):</div> <div>LC50 (Inhalation vapours):</div> <div>20 g/kg Rabbit</div> <div>&gt; 5000 mg/kg Rat</div> <div>120 mg/l/4h Pimephales promelas</div> </div> <div>HYDROGEN PEROXIDE SOLUTION</div> <div> <div>LD50 (Dermal):</div> <div>LD50 (Oral):</div> <div>LC50 (Inhalation vapours):</div> <div>ATE (Inhalation vapours):</div> <div>&gt; 2000 mg/kg Coniglio</div> <div>1193 mg/kg Ratto</div> <div>&gt; 0,17 mg/l/4h Ratto</div> <div>11 mg/l estimate from table 3.1.2 of Annex I of the CLP</div> <div>at the concentration of 35%</div> <div>at the concentration of 35%</div> <div>(figure used for calculation of the acute toxicity estimate of the mixture)</div> </div> <div><u>SKIN CORROSION / IRRITATION</u></div> <div>Does not meet the classification criteria for this hazard class</div> <div>HYDROGEN PEROXIDE SOLUTION</div> <div>It can cause skin irritation</div> <div><u>SERIOUS EYE DAMAGE / IRRITATION</u></div> <div>Causes serious eye irritation</div> <div>HYDROGEN PEROXIDE SOLUTION</div> <div>It can cause eye irritation</div> <div><u>RESPIRATORY OR SKIN SENSITISATION</u></div> <div>Does not meet the classification criteria for this hazard class</div> <div>HYDROGEN PEROXIDE SOLUTION</div> <div>There are no known sensitizing effects.</div> <div><u>Respiratory sensitization</u></div> <div>Information not available</div>		

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Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

HYDROGEN PEROXIDE SOLUTION

No mutagenic, carcinogenic or reprotoxic effects are known.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

HYDROGEN PEROXIDE SOLUTION

It can irritate the respiratory tract.

Target organs

Information not available


Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

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Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**


ETHANOL	
LC50 - for Fish	13 g/l Salmo gairdner
EC50 - for Crustacea	12,34 g/l Daphnia Magna
EC50 - for Algae / Aquatic Plants	275 mg/l/72h Chlorella vulgaris
Chronic NOEC for Crustacea	> 10 mg/l 21d (acqua dolce)
Chronic NOEC for Algae / Aquatic Plants	7,9 g/l
HYDROGEN PEROXIDE SOLUTION	
LC50 - for Fish	16,4 mg/l/96h Pimephales promelas
EC50 - for Crustacea	2,4 mg/l/48h Daphnia pulex
EC50 - for Algae / Aquatic Plants	1,38 mg/l/72h Skeletonema costatum
Chronic NOEC for Crustacea	0,63 mg/l Daphnia magna

**12.2. Persistence and degradability**

ETHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
HYDROGEN PEROXIDE SOLUTION	
Solubility in water	100000 mg/l
Rapidly degradable	

**12.3. Bioaccumulative potential**

ETHANOL	
Partition coefficient: n-octanol/water	-0,35

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#### HYDROGEN PEROXIDE SOLUTION

Partition coefficient: n-octanol/water -1,57

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information


The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

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#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

### SECTION 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

##### Product


Point 3 - 40

##### Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

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The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

#### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

#### Substances subject to authorisation (Annex XIV REACH)

None

#### Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

#### Substances subject to the Rotterdam Convention:

None

#### Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Ox. Liq. 1	Oxidising liquid, category 1
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.

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- H319** Causes serious eye irritation.
- H335** May cause respiratory irritation.
- H412** Harmful to aquatic life with long lasting effects.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

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  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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- INRS - Fiche Toxicologique (toxicological sheet)
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- IFA GESTIS website
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- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:

01 / 03 / 11 / 12.