

## Safety Data Sheet

according to By-law on Compilation and Distribution of Safety Data Sheets of Hazardous Substances and Mixtures (O.G:13.12.2014-29204)

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

#### **1.1. Product identifier**

Product form Product name	: Mixture : Detrocid Enzym
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
Use of the substance/mixture	: Medical Device/Instrument Disinfectant and Cleaner
1.3. Details of the supplier of the safety da	ata sheet
DETRO HEALTHCARE KİMYA SAN. A.Ş Atatürk mah. Cemal Gürsel Cad. No:8 Esenyurt	

34522 İstanbul TURKIYE T +90 (212) 659 77 62 - F +90 (212) 659 77 63 info@detrox.com.tr - https://www.detrox.com.tr/

1.4. Emergency telephone number

No additional information available

### **SECTION 2: Hazards identification**

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

### Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA]

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1	H318
Respiratory sensitisation, Category 1	H334
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
Full text of H-statements: see section 16	
Adverse physicochemical, human health and : Harmful if swallowed.	Causes

: Harmful if swallowed. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Toxic to aquatic life with long lasting effects.

didecyldimethylammonium chloride, N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine, Quaternary ammonium compounds, benzyl C12-C16 alkyldimethyl, chlorides, Oxirane, 2methyl-, polymer with oxirane, mono(2-propylheptyl) ether, subtilisin, Amylase, Lipase,

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P264 - Wash hands, forearms and face with soap and water thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

### 2.2. Label elements

environmental effects

#### Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA]

Hazard pictograms (SEA)



: H302 - Harmful if swallowed.

: Danger

triacylglycerol

Signal word (SEA)	
Hazardous ingredients	

Hazard statements (SEA)

Precautionary statements (SEA)

H314 - Causes severe skin burns and eye damage.

H411 - Toxic to aquatic life with long lasting effects.

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



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P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting 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 dial 114 for the NATIONAL POISON CENTER or call a doctor/physician. P405 - Store locked up.

### 2.3. Other hazards

#### Other hazards not contributing to the classification

No additional information available

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (OG) 11.12.2013 - 28848 [SEA]
Quaternary ammonium compounds, benzyl C12-C16 alkyldimethyl, chlorides	CAS-No.: 68424-85-1 EC-No.: 939-253-5	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
didecyldimethylammonium chloride	CAS-No.: 7173-51-5 EC-No.: 230-525-2 EC Index-No.: 612-131-00-6	≥ 5 – < 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	CAS-No.: 166736-08-9	≥3-<5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
N-(3-aminopropyl)-N-dodecylpropane-1,3- diamine	CAS-No.: 2372-82-9 EC-No.: 219-145-8	≥1-<3	Acute Tox. 3 (Oral), H301 Skin Corr. 1, H314 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
subtilisin	CAS-No.: 9014-01-1 EC-No.: 232-752-2 EC Index-No.: 647-012-00-8	≥ 1 – < 3	STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334
Amylase	CAS-No.: 9000-92-4	≥1-<3	Resp. Sens. 1, H334
Lipase, triacylglycerol	CAS-No.: 9001-62-1 EC-No.: 232-619-9	≥1-<3	Resp. Sens. 1, H334

Full text of H-statements: see section 16

### **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.



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First-aid me	asures after ingestion	
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: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	:	Burns.
Symptoms/effects after eye contact	:	Serious damage to eyes.
Symptoms/effects after ingestion	:	Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipr	6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment a	nd cleaning up			
For containment Methods for cleaning up Other information	<ul> <li>Collect spillage.</li> <li>Take up liquid spill into absorbent material.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>			

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.



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

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### No additional information available

#### 8.2. Exposure controls

Appropriate engineering controls

Hand protection

Eye protection

Skin and body protection

Respiratory protection

Personal protective equipment symbol(s)



Environmental exposure controls

- : Ensure good ventilation of the work station.
- : Protective gloves
- : Safety glasses
- : Wear suitable protective clothing
- : [In case of inadequate ventilation] wear respiratory protection.

: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: Blue
Odour	: characteristic
Odour threshold	: No data available
рН	: 5-8
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 0.94 – 1.14 g/cm <sup>3</sup>
Solubility	: Water: Soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available



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### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological inform	nation		
11.1. Information on toxicological eff	ects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified		
Detrocid Enzym			
ATE (SEA) (oral)	1960.784 mg/kg bodyweight		
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9)			
LD50 dermal rat	> 600 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other:		
Skin corrosion/irritation	: Causes severe skin burns. pH: 5 – 8		
Detrocid Enzym			
рН	5 - 8		
Serious eye damage/irritation	: Causes serious eye damage. pH: 5 – 8		
Detrocid Enzym			
рН	5 – 8		
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity	<ul> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>		
STOT-single exposure	: Not classified		
subtilisin (9014-01-1)			
STOT-single exposure	May cause respiratory irritation.		



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TOT-repeated exposure :	Not classified		
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9)			
_OAEL (dermal, rat/rabbit, 90 days)	5 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Lipase, triacylglycerol (9001-62-1)			
NOAEL (oral, rat, 90 days)	≥ 1248.3 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
spiration hazard :	Not classified		
didecyldimethylammonium chloride (7173-57	I-5)		
Animal studies and expert judgment for classification	False		
N-(3-aminopropyl)-N-dodecylpropane-1,3-dia	mine (2372-82-9)		
Animal studies and expert judgment for classification	False		
Quaternary ammonium compounds, benzyl (	C12-C16 alkyldimethyl, chlorides (68424-85-1)		
Animal studies and expert judgment for classification	False		
Oxirane, 2-methyl-, polymer with oxirane, mo	ono(2-propylheptyl) ether (166736-08-9)		
Animal studies and expert judgment for classification	False		
subtilisin (9014-01-1)			
Animal studies and expert judgment for classification	False		
Amylase (9000-92-4)			
Animal studies and expert judgment for classification	False		
Lipase, triacylglycerol (9001-62-1)			
Animal studies and expert judgment for classification	False		

## **SECTION 12: Ecological information**

# 12.1. Toxicity

	Toxic to aquatic life with long lasting effects. Not classified	
Hazardous to the aquatic environment, long-term : (chronic)	Toxic to aquatic life with long lasting effects.	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (2372-82-9)		
LC50 - Fish [1]	0.431 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	0.0775 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	0.02 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 72h - Algae [2]	0.012 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
LOEC (chronic)	0.066 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.024 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	



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Lipase, triacylglycerol (9001-62-1)		
LC50 - Fish [1]	> 262.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	> 262.3 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	94.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	

## 12.2. Persistence and degradability

#### No additional information available

12.3. Bioaccumulative potential		
Detrocid Enzym		
Bioaccumulative potential	No additional information available	
12.4. Mobility in soil		
Detrocid Enzym		
Mobility in soil	No additional information available	
12.5. Results of PBT and vPvB assessment		

#### No additional information available

# 12.6. Other adverse effects

#### Ozone Other adverse effects

: Not classified : No additional information available

SECTION 13: Disposal considerations	S
13.1. Waste treatment methods	
Regional legislation (waste)	<ul> <li>Disposal must be done according to official regulations.</li> <li>Waste Management Regulation published in the Official Journal numbered 29314 on April 2, 2015.</li> </ul>
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

## In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
1903	1903	1903	1903	1903
14.2. UN proper shippin	g name			
DISINFECTANT, LIQUID, CORROSIVE, N.O.S.	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.	Disinfectant, liquid, corrosive, n.o.s.	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Transport document descr	Transport document description			
UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S., 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1903 Disinfectant, liquid, corrosive, n.o.s., 8, III, ENVIRONMENTALLY HAZARDOUS	UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS	UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS



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(0.0.10.12.2014 20204)				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.3. Transport hazard c	lass(es)		1	1
8	8	8	8	8
8 Not applicable	8		B	B
14.4. Packing group				
		III		
14.5. Environmental haz	ards		<u> </u>	
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatio	n available		1	I
14.6. Special precautions	s for user			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Mixed packing provisions (AD Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage Hazard identification number ( Orange plates	: 2 : 4 : 6 : 7 : 7 : 1 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7 : 7	<sup>3</sup> <sup>12</sup> 80 1903		
Tunnel restriction code (ADR)	: 6	Ē		
<b>Transport by sea</b> Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMD	: { : [ : [ G) : [	223, 274 5 L 51 P001, LP01 BC03		

- : F-A
  - : S-B
  - : A

E1 Y841 1L 852 5L 856 60L A3, A803 8L

: A wide variety of corrosive liquids. Causes burns to skin, eyes and mucous membranes.

Air t	rans	port
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EmS-No. (Fire)

EmS-No. (Spillage) Stowage category (IMDG)

Properties and observations (IMDG)

PCA Excepted quantities (IATA)	:
PCA Limited quantities (IATA)	:
PCA limited quantity max net quantity (IATA)	:
PCA packing instructions (IATA)	:
PCA max net quantity (IATA)	:
CAO packing instructions (IATA)	:
CAO max net quantity (IATA)	:
Special provisions (IATA)	:
ERG code (IATA)	:



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Inland waterway	transport

inianu waterway transport	
Classification code (ADN)	: C9
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: C9
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

#### 15.1.1. National regulations

Local regulations (Turkey)	: Personal Protective Equipment Regulation published in the Official Journal numbered 30761 on May 1, 2019
	Regulation on Use of Personal Protective Equipments in Workplaces published in the Official Journal numbered 28695 on July 2, 2013
	Occupational Health and Safety Regulation published in the Official Journal numbered 25311 on December 9, 2003
	Regulation on Test Methods that will be Applied to Determine the Physicochemical,
	Toxicological and Ecotoxicological Properties of Substances and Mixtures published in the Official Journal numbered 28848 on December 11, 2013
	Regulation on Health and Safety Precautions When Working with Chemical Substances published in the Official Journal numbered 28733 on August 12, 2013
	Regulation on Health and Safety Precautions When Working with Carcinogenic and
	Mutagenic Substances published in the Official Journal numbered 28730 on August 6, 2013
	Regulation on Transportation of Dangerous Goods by Road published in the Official Journal numbered 30754 on April 24. 2019.
<b>T</b> I: I I I I I I I I I I I I	

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation on Ozone Depleting Substances published in the Official Journal numbered 30031 on April 7, 2017.

Substance(s) are not subject to Regulation on Persistent Organic Pollutants (O.G. 14.11.2018-30595)

SECTION 16: Other information		
Abbreviations and acronyms		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	



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Abbreviations and acronyms		
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources

: ECHA (European Chemicals Agency). Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Full text of H- and EUH-statements	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1



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Full text of H- and EUH-statements		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

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Certificate valid until	07/10/2025
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Safety Data Sheet (SDS), Turkey

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