

Conforms to Reg. (EU) 878/2020

Issued on 18/05/2018
Revision n° 2
Rev. Date 16/11/2021
Page
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1.1. Product identifier       F_83         Product name       Lemon Scented DISHWASHING DETERGENT         VIF:       X470-X0RC-M00X-J2U7         1.1. Referent identified uses of the substance or mixture and uses advised against       Consumer         Identified Uses       Industrial       Product identified uses         identified Uses       Industrial       Consumer         Uses Advised Against       VIEW FADOR S.r.I.       VIEW FADOR S.r.I.         Yial Adress       Yial Mario Calderara, 31       Z5018 Montchiari (IS)         Italia       Tel. +39 030961 243       www.newfador.it         4. Emergency telephone number       NEW FADOR S.r.I.       -39 030961 243         For urgent inquines refer to       NEW FADOR S.r.I.       -39 030961 243         View FADOR S.r.I.       -39 030961 243       WWW.newfador.it         1.1. Emergency telephone number       NEW FADOR S.r.I.       -39 030961 243         For urgent inquines refer to       NEW FADOR S.r.I.       -39 030961 243         (Btals of the substance or mixture				
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Hazard pictograms:	Hazard pictograms:			



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Signal words:

Warning

Hazard statements:

H319	Causes serious eye irritation.
H315	Causes skin irritation.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
P337+P313	If eye irritation persists: Get medical advice / attention.

Ingredients according to Regulation (EC) No. 648/2004

Less than 5%	amphoteric surfactants
5% or over but less than	anionic surfactants
15%	

perfumes, Limonene

Preservation agents: 2-BROMO-2-NITROPROPANE-1,3-DIOL, GLUTARAL, BENZISOTHIAZOLINONE

#### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

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

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
BENZENESULFONIC ACID, C10- 13-ALKYL DERIVS., SODIUM SALTS		
CAS 68411-30-3	8≤x< 9	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412



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EC 270-115-0		LD50 Oral: 1080 mg/kg
INDEX -		
REACH Reg. 01-2119489428-22		
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS CAS 68891-38-3	2,5 ≤ x < 3	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 500-234-8		Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5%
INDEX -		
REACH Reg. 01-2119488639-16		
2-BROMO-2-NITROPROPAN-1,3- DIOL		
CAS 52-51-7	0 ≤ x < 0,05	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411
EC 200-143-0		STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
INDEX 603-085-00-8		
REACH Reg. 01-2119980938-15		

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 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.



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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 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 firefighting 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).

### **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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. 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**



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#### 8.1. Control parameters

				0.000		0		
Normal value in fresh water				0,268	m	g/l		
Normal value in marine water				0,027	m	g/l		
Normal value for fresh water sedir	ment			8,1	m	g/kg		
Normal value for marine water see	diment			6,8	m	g/kg		
Normal value for water, intermitte	nt release			0,017	m	g/l		
Normal value of STP microorganis	sms			3,43	m	g/l		
Normal value for the terrestrial co	mpartment			35	m	g/kg		
Health - Derived no-effect le	Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 0,425 mg/kg		systemic		systemic
Inhalation			1,5	bw/d 1,5 mg/m3			6	6 mg/m3
Skin			.,0	42,5 mg/kg			•	85 mg/kg
				bw/d				bw/d
ALCOHOLS, C12-14, ETHO	XYLATED, SU	LFATES, SODIUI	M SALTS					
Predicted no-effect concentration	- PNEC							
Normal value in fresh water				0,24	m	g/l		
Normal value in marine water				0,024	m	g/l		
Normal value for fresh water sedir	ment			0,917	m	g/kg		
Normal value for marine water see	diment			0,092	m	g/kg		
Normal value for water, intermitter	nt release			0,071	m	g/l		
Normal value of STP microorganis	sms			10	g/l			
Normal value for the terrestrial co	mpartment			7,5	m	g/kg		
Health - Derived no-effect le	Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 15 mg/kg		systemic		systemic
Inhalation				bw/d 52 mg/m3				175 mg/m3
Skin				1650 mg/kg				2750 mg/kg
				bw/d				bw/d
2-BROMO-2-NITROPROPAN								
Predicted no-effect concentration	- PNEC							
Normal value in fresh water				0,01	m			
Normal value in marine water				0,001	m	g/I		
Normal value for fresh water sedir	ment			0,041	m	g/kg		
Normal value for marine water see	diment			0,003	m	g/kg		
Normal value for water, intermitter	nt release			0,003	m	g/I		
Normal value of STP microorganis	sms			0,43	m	g/l		
						g/kg		



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#### 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		1,1 mg/kg bw/d		0,35 mg/kg bw/d				
Inhalation	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	1,2 mg/m3	4,2 mg/m3	12,3 mg/m3	4,2 mg/m3	4,1 mg/m3
Skin	0,008 mg/cm2	4,2 mg/kg bw/d	0,008 mg/cm2	1,4 mg/kg bw/d	0,013 mg/cm2	7 mg/kg bw/d	0,013 mg/cm2	2,3 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 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 (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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 II 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

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, 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). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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. The protection provided by masks is in any case limited.

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.

### **SECTION 9.** Physical and chemical properties

9.1. Information on basic physical and chemical properties

<b>Properties</b> Appearance	<b>Value</b> liquid	Information
Colour	green	
Odour	characteristic	
Melting point / freezing point	Not available	
Initial boiling point	Not available	



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Flammability	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
рН	5,5
Kinematic viscosity	Not available
Dynamic viscosity	500 +/- 100 mPa sec
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Density and/or relative density	1,017
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 Explosive properties

Oxidising properties

not classified as explosive, contains no explosive substances according to CLP Art. (14 (2)) the product is not an oxidizing substance

## **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-BROMO-2-NITROPROPAN-1,3-DIOL Decomposes on contact with: water, metals, strong bases.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.



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2-BROMO-2-NITROPROPAN-1,3-DIOL Avoid exposure to: light, UV rays, moisture.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

2-BROMO-2-NITROPROPAN-1,3-DIOL May develop: nitric oxide, carbon oxides, hydrobromic acid.

### **SECTION 11. Toxicological information**

#### 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 Information not available Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available Interactive effects Information not available ACUTE TOXICITY ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture: Not classified (no significant component) BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS LD50 (Oral): 1080 mg/kg rat LD50 (Dermal): > 2000 mg/kg rat ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS LD50 (Oral): > 2000 mg/kg rat LD50 (Dermal): > 2000 mg/kg rat 2-BROMO-2-NITROPROPAN-1,3-DIOL LD50 (Oral): 254 mg/kg rat STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) LD50 (Dermal): 64 ma/ka rat 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP STA (Dermal): (figure used for calculation of the acute toxicity estimate of the mixture) LC50 (Inhalation mists/powders): 0,588 mg/l/4h rat SKIN CORROSION / IRRITATION Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION Causes serious eye irritation RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class GERM CELL MUTAGENICITY Does not meet the classification criteria for this hazard class CARCINOGENICITY Does not meet the classification criteria for this hazard class REPRODUCTIVE TOXICITY



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Does not meet the classification criteria for this hazard class STOT - SINGLE EXPOSURE Does not meet the classification criteria for this hazard class STOT - REPEATED EXPOSURE Does not meet the classification criteria for this hazard class 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**

#### 12.1. Toxicity

2-BROMO-2-NITROPROPAN-1,3-DIOL		
LC50 - for Fish	20 mg/l/96h Oncorhynchus mykiss	
EC50 - for Crustacea	1,6 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	0,25 mg/l/72h	
Chronic NOEC for Algae / Aquatic Plants	0,08 mg/l	
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS		
LC50 - for Fish	1,67 mg/l/96h	
EC50 - for Crustacea	2,9 mg/l/48h	
EC50 - for Algae / Aquatic Plants	0,91 mg/l/72h	
Chronic NOEC for Fish	0,23 mg/l 72d	
Chronic NOEC for Crustacea	0,5 mg/l 7d	
Chronic NOEC for Algae / Aquatic Plants	0,5 mg/l 96h	
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS		
LC50 - for Fish	> 1 mg/l/96h Danio rerio	
EC50 - for Crustacea	7,2 mg/l/48h Daphnia magna	
EC50 - for Algae / Aquatic Plants	27 mg/l/72h Desmodesmus subspicatus	
Chronic NOEC for Fish	0,14 mg/l 28d Oncorhynchus mykiss	
Chronic NOEC for Crustacea	0,18 mg/l 21d Daphnia magna	
Chronic NOEC for Algae / Aquatic Plants	0,93 mg/l Desmodesmus subspicatus	

#### 12.2. Persistence and degradability

2-BROMO-2-NITROPROPAN-1,3-DIOL
Solubility in water
Rapidly degradable

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS Rapidly degradable

286000 mg/l



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## ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Rapidly degradable 12.3. Bioaccumulative potential 2-BROMO-2-NITROPROPAN-1,3-DIOL Partition coefficient: n-octanol/water 0,22 BCF 3,16 BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., SODIUM SALTS 159 BCF 12.4. Mobility in soil ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Partition coefficient: soil/water 0,34

#### 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/EC: 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 (EC) No. 20 Not applicable	19/1148 - on the marketing and use of explosives precursors	
Substances in Candidat On the basis of availabl	e List (Art. 59 REACH) e data, the product does not contain any SVHC in percentage	≥ than 0,1%.
Substances subject to a None	uthorisation (Annex XIV REACH)	
Substances subject to e None	xportation reporting pursuant to (EC) Reg. 649/2012:	
Substances subject to t None	ne Rotterdam Convention:	
<u>Substances subject to t</u> None	ne Stockholm Convention:	
Healthcare controls		



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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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

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.

#### 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:

Acute 10x. 4Acute toxicity, category 4Eye Dam. 1Serious eye damage, category 1Eye Irrit. 2Eye irritation, category 2Skin Irrit. 2Skin irritation, category 2STOT SE 3Specific target organ toxicity - single exposure, category 3Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 2Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 3H302Hazardous to the aquatic environment, chronic toxicity, category 3H312Harmful if swallowed.H318Causes serious eye damage.H319Causes serious eye irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.		
Eye Irrit. 2Eye irritation, category 2Skin Irrit. 2Skin irritation, category 2STOT SE 3Specific target organ toxicity - single exposure, category 3Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 1Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Acute Tox. 4	Acute toxicity, category 4
Skin Irrit. 2Skin irritation, category 2STOT SE 3Specific target organ toxicity - single exposure, category 3Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 1Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Eye Dam. 1	Serious eye damage, category 1
STOT SE 3Specific target organ toxicity - single exposure, category 3Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 1Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Eye Irrit. 2	Eye irritation, category 2
Aquatic Acute 1Hazardous to the aquatic environment, acute toxicity, category 1Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H315May cause respiratory irritation.H300Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Skin Irrit. 2	Skin irritation, category 2
Aquatic Chronic 2Hazardous to the aquatic environment, chronic toxicity, category 2Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 3Hazardous to the aquatic environment, chronic toxicity, category 3H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
H302Harmful if swallowed.H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H312Harmful in contact with skin.H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H318Causes serious eye damage.H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	H302	Harmful if swallowed.
H319Causes serious eye irritation.H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	H312	Harmful in contact with skin.
H315Causes skin irritation.H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	H318	Causes serious eye damage.
H335May cause respiratory irritation.H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	H319	Causes serious eye irritation.
H400Very toxic to aquatic life.H411Toxic to aquatic life with long lasting effects.	H315	Causes skin irritation.
H411     Toxic to aquatic life with long lasting effects.	H335	May cause respiratory irritation.
	H400	Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.	H411	Toxic to aquatic life with long lasting effects.
	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 NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%



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- 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: EC Regulation 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

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- Regulation (EU) 750/2005 (FAD: CEP) of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
   Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

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 / 02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.