

3/17

## MATERIAL SAFETY DATA SHEET

Conforming to Reg. (EU) 878/2020

RLAB

Sheet Code S-P4/2-2 Sch. Date 05/2010

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

1.1. Product identifier

Code: **F\_307** 

Product name DEXAL CANDEGGINA Gel
UFI: 3CU0-A0C4-700E-RJCP

4.11.2022

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2. Relevant identified uses of the substance of mixture and uses advised against									
Identified Uses	Industrial	Professional	Consumer						
hard surface cleaner	-	<b>✓</b>	<b>~</b>						
Bleaching	-	<b>✓</b>	✓						
Whitener	-	<b>✓</b>	<b>✓</b>						

#### Uses Advised Against

Do not use for uses other than those indicated

1.3. Details of the supplier of the safety data sheet

Name NEW FADOR S.r.I.
Full address via Mario Calderara, 31
District and Country 25018 Montichiari (BS)

Italia

Tel. +39 030961 243

www.newfador.it

e-mail address of the competent person

responsible for the Safety Data Sheet info@newfador.it

1.4. Emergency telephone number

For urgent inquiries refer to NEW FADOR S.r.I.

+39 030961 243

(08.30 - 17.30)

### **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:

Skin corrosion, category 1B H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

Hazardous to the aquatic environment, chronic toxicity, H412 Harmful to aquatic life with long lasting effects.

category 3

### 2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:



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H314 Causes severe skin burns and eve damage. H412 Harmful to aquatic life with long lasting effects.

**EUH206** Warning! Do not use together with other products. May release dangerous gases (chlorine).

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 / face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P501 Dispose of the product / container in accordance with current regulations.

Contains: SODIUM HYPOCHLORITE, SOLUTION 2,4% CI ACTIVE

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

Less than 5% anionic surfactants, non-ionic surfactants, chlorine-based bleaching agents, soap

perfumes

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 (EC) 1272/2008 (CLP)

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES,

**SODIUM SALTS** 

CAS 68891-38-3  $2,5 \le x < 3$ Eye Dam. 1 H318,

Skin Irrit. 2 H315, Aquatic Chronic 3 H412

Eye Dam. 1 H318: ≥ 10%, Eye Irrit. 2 H319: ≥ 5%

EC 500-234-8 INDFX -

REACH Reg. 01-2119488639-16

SODIUM HYPOCHLORITE

**SOLUTION 2,4% CI ACTIVE (100%** 

- active chlorine )

CAS 7681-52-9  $2 \le x < 2,5$ Met. Corr. 1 H290,

Skin Corr. 1B H314, Eye Dam. 1 H318,

Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1,

EUH031,

Classification note according to Annex VI to the CLP Regulation: B

EC 231-668-3 INDEX 017-011-00-1

REACH Reg. 01-2119488154-34 N,N-dimethyltetradecylamine Noxide

CAS 3332-27-2  $0.4 \le x < 0.45$ Acute Tox. 4 H302,

Eye Dam. 1 H318,



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> Skin Irrit, 2 H315. Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 LD50 Oral: >1495

EC 222-059-3 INDEX -

REACH Reg. 01-2119949262-37

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.

#### 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 selfcontained 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.



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#### 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**

Effects on

consumers

Acute local

Acute systemic

Chronic local

Chronic

systemic

#### 8.1. Control parameters

Route of exposure

8.1. Control parameters				
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Predicted no-effect concentration - PNEC				
Normal value in fresh water	0.24	a /I		
	•	g/l		
Normal value in marine water	·	g/l		
Normal value for fresh water sediment	0,917 m	g/kg		
Normal value for marine water sediment	0,092 m	g/kg		
Normal value for water, intermittent release	0,071 m	g/l		
Normal value of STP microorganisms	10 g/			
Normal value for the terrestrial compartment	7,5 m	g/kg		
Health - Derived no-effect level - DNEL / DMEL  Effects on consumers	Effects on workers			
Route of exposure Acute local Acute systemic Chronic loc	Chronic Acute local systemic	Acute systemic	Chronic local	Chronic systemic
Oral	15 mg/kg bw/d			
Inhalation	52 mg/m3			175 mg/m3
Skin	1650 mg/kg bw/d			2750 mg/kg bw/d
SODIUM HYPOCHLORITE, SOLUTION 2,4% CI ACTIVE Predicted no-effect concentration - PNEC				
Normal value in fresh water	0,00021 m	g/l		
Normal value in marine water		g/l		
Normal value for water, intermittent release	0,00026 m	g/l		
Normal value of STP microorganisms	4,69 m	g/l		
Normal value for the food chain (secondary poisoning)	11,1 m	g/kg		
Health - Derived no-effect level - DNEL / DMEL				

Effects on

Acute local

Acute

systemic

Chronic local

Chronic

systemic

workers



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Oral		•	•	0,26 mg/kg/d	•			
Inhalation	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3	3,1 mg/m3	3,1 mg/m3	1,55 mg/m3	1,55 mg/m3
N,N-dimethyltetradecy	lamine N-oxide							
Predicted no-effect concent	tration - PNEC							
Normal value in fresh water	r			0,034	mį	g/l		
Normal value in marine wat	ter			0,003	mç	g/l		
Normal value for fresh water	er sediment			5,24	mį	g/kg		
Normal value for marine wa	ater sediment			0,524	mį	g/kg		
Normal value of STP micro	organisms			24	mį	g/l		
Normal value for the food c	hain (secondary poison	ing)		11,1	mį	g/kg		
Normal value for the terrest	trial compartment			1,02	mç	g/kg		
Health - Derived no-eff	fect level - DNEL / [	OMEL						
	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				0,44 mg/kg bw/d		•		•
Inhalation				1,53 mg/m3				6,2 mg/m3
Skin				5,5 mg/kg bw/d				11 mg/kg bw/d

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 (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.

#### **FYF 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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



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**Properties** Value Information

Appearance liquid Colour green 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 not available Flash point not available Auto-ignition temperature not available Decomposition temperature 11,5 Kinematic viscosity not available

Dynamic viscosity 450 ± 100 mPa\*s (25 °C;

rotore 2; velocità 30) soluble in water

Solubility Partition coefficient: n-octanol/water not available not available Vapour pressure Density and/or relative density not available 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

Explosive properties not classified as explosive,

contains no explosive

substances according to CLP

Art. (14 (2))

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

### 10.1. Reactivity

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

#### 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.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available



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## **SECTION 11. Toxicological information**

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

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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:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

LD50 (Dermal): > 2000 mg/kg rat LD50 (Oral): > 2000 mg/kg rat

SODIUM HYPOCHLORITE, SOLUTION 2,4% CI ACTIVE

 LD50 (Dermal):
 > 10000 mg/kg rabbit

 LD50 (Oral):
 1100 mg/kg rat

 LC50 (Inhalation vapours):
 > 10,5 mg/l/1h rat

N,N-dimethyltetradecylamine N-oxide

LD50 (Dermal): > 2000 mg/kg LD50 (Oral): > 1495 mg/kg

### SKIN CORROSION / IRRITATION

Corrosive for the skin

Classification according to the experimental pH value

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

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

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

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

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



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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**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

0,25 mg/l

#### 12.1. Toxicity

N,N-dimethyltetradecylamine N-oxide

 LC50 - for Fish
 10,3 mg/l/96h

 EC50 - for Crustacea
 2,46 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 0,66 mg/l/72h

 Chronic NOEC for Fish
 0,495 mg/l 15 day

 Chronic NOEC for Crustacea
 0,7 mg/l

ALCOHOLS, C12-14, ETHOXYLATED,

Chronic NOEC for Algae / Aquatic Plants

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

SODIUM HYPOCHLORITE, SOLUTION

2,4% CI ACTIVE
LC50 - for Fish
0,059 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea
0,04 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants
46 mg/l/72h Gracilaria tenuistipitata

### 12.2. Persistence and degradability

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS Rapidly degradable

SODIUM HYPOCHLORITE, SOLUTION

Degradability: information not available

2,4% CI ACTIVE Solubility in water

1000 - 10000 mg/l

### 12.3. Bioaccumulative potential

SODIUM HYPOCHLORITE, SOLUTION

2,4% CI ACTIVE

Partition coefficient: n-octanol/water -3,42

#### 12.4. Mobility in soil

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Partition coefficient: soil/water 0,34

SODIUM HYPOCHLORITE, SOLUTION

2,4% CI ACTIVE

Partition coefficient: soil/water -2,9686

### 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 ≥ than 0,1%.

#### 12.6. Endocrine disrupting properties



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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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

## **SECTION 14. Transport information**

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 3266

#### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)
IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)
IATA: CORROSIVE LIQUID, BASIC, INORGANIC, (SODIUM HYPOCHLORITE, SODIUM HYDROXIDE)

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

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



### 14.4. Packing group

ADR / RID, IMDG, IATA:

### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID: Limited Tunnel Quantities: 5 restriction L code: (E)

Special provision: -

IMDG: EMS: F-A, S-B Limited

Quantities: 5

IATA: Cargo: Maximum

Maximum Packaging quantity: 60 L instructions:



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Pass.: Maximum quantity: 5 L

Packaging instructions: 852

856

Special provision: A3, A803

#### 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

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ 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.

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:

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4
Skin Corr. 1B Skin corrosion, category 1B



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Eye Dam. 1 Serious eye damage, category 1

**Aquatic Acute 1** Hazardous to the aquatic environment, acute toxicity, category 1 **Aquatic Chronic 1** Hazardous to the aquatic environment, chronic toxicity, category 1 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

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

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH031 Contact with acids liberates toxic gas.

**EUH206** Warning! Do not use together with other products. May release dangerous gases

(chlorine).

#### 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**

- 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 (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. 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 (EU) 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)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

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- 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