

Revision nr. 3

Dated 05/11/2020

Printed on 10/12/2020

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Replaced revision:2 (Dated: 10/04/2019)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: FHX216

Product name Spic & Span WC GEL CANDEGGINA

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

Intended use Detergente per WC

1.3. Details of the supplier of the safety data sheet

Full address
District and Country

CONTER Srl Viale Europa, 12 26855 Lodi Vecchio (LO)

Tel. +39 0371.4631 Fax +39 0371.460474

e-mail : conter@conter.com SITO WEB : www.conter.com

1.4. Emergency telephone number

For urgent inquiries refer to CONTER SrI - n° Verde: +39 800951541 - (H24)

Centro antiveleni - Ospedale di Niguarda- Milano - Telefono 02 - 66101029

CAV Osp. Pediatrico Bambino Gesù Roma - Telefono 06 68593726

Anna Lepore Az. Osp. Univ. Foggia Foggia V.Ie Luigi Pinto, 1 71122 0881-732326 Gennaro Savoia Az. Osp. A. Cardarelli Napoli Via A. Cardarelli, 9 80131 081-7472870 M. Caterina Grassi CAV Policlinico Umberto I Roma V.Ie del Policlinico, 155 161 06-

Alessandro Barelli CAV Policlinico A. Gemelli Roma Largo Agostino Gemelli, 8 168

06-3054343

Primo Botti Az. Osp. Careggi U.O. Tossicologia Medica Firenze Largo Brambilla, 3

50134 055-7947819

Carlo Locatelli CAV Centro Nazionale di Informazione Tossicologica Pavia Via

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Franca Davanzo Osp. Niguarda Ca' Granda Milano Piazza Ospedale Maggiore,3 20162

02-66101029

M. Luisa Farina Azienda Ospedaliera Papa Giovanni XXII Bergamo Piazza OMS, 1

24127 800883300

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 2015/830.

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:

Substance or mixture corrosive to metals, category 1 H290

May be corrosive to metals.



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

H411

Serious eye damage, category 1 H318 Causes serious eye damage. Hazardous to the aquatic environment, acute toxicity, H400 Very toxic to aquatic life.

category 1

Hazardous to the aquatic environment, chronic toxicity,

category 2

Toxic to aquatic life with long lasting effects.

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:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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

Precautionary statements:

P501 Dispose of contents / container in accordance with local regulations

P102 Keep out of reach of children.
P260 Do not breathe vapours / spray.

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

rinsing.

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].

Contains: SODIUM HYDROXIDE

SODIUM HYPOCHLORITE SOL. 15%

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:



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Identification x = Conc. % Classification 1272/2008 (CLP)

IPOCLORITO DI SODIO (15% -

active chlorine)

CAS 7681-52-9 $30 \le x < 35$

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

Amines, C12-18 (even numbered) - alkyldimethyl, N-oxides

CAS - 1 ≤ x < 2 Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 2 H411

EC 931-341-1

INDEX -

Reg. no. 01-2119489396-21-0003

SODIUM HYDROXIDE

CAS 1310-73-2 0,6 ≤ x < 1,1 Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-185-5

INDEX 011-002-00-6

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.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE



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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 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).

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



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Regulatory References:

HRV

HUN

BGR България МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г) CZF

Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) Česká Republika

ESP España Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS FRA France

United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018) **GBR**

GRC Ελλάδα ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018

Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti

i biološkim graničnim vrijednostima (NN 91/18)

A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000.

(IX. 30.) EüM-

SZCSM együttes rendelet módosításáról

ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r POL Polska Slovensko Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa

nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi

s expozíciou chemickým faktorom pri práci v znení neskorších predpisov

TLV-ACGIH **ACGIH 2019**

IPOCL	ORITO.	DI SODIO
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Hrvatska

Magyarország

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,00021	mg/l	
Normal value in marine water	0,000042	mg/l	
Normal value for water, intermittent release	0,000026	mg/l	
Normal value of STP microorganisms	0,03	mg/l	_

Health - Derived no-effect level - DNEL / DMEL

ricaltii - Derived no-er	ICCLICACI - DIAFF.	/IVI L L						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral				0,26 mg/kg				
				bw/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

Amines, C12-18 (even numbered) -

alkyldimethyl, N-oxides

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,0335	mg/l	
Normal value in marine water	0,00335	mg/l	
Normal value for fresh water sediment	5,24	mg/kg	
Normal value for marine water sediment	0,524	mg/kg	
Normal value for water, intermittent release	0,0335	mg/l	
Normal value of STP microorganisms	24	ma/l	

Health - D)erived i	no-ette	ct leve) - L)NEL/	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				0,44 mg/kg bw/d				
Inhalation			0,27	3,825 mg/m3		15,5 mg/m3 8h		
Skin				5,5 mg/kg bw/d	0,27	11 mg/kg bw/d		

SODIUM HYDROXIDE

Threshold Limit Value



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Туре	Country	TWA/8h		STEL/15min		Manca la traduzione (W08 163 0). <======= (*) <error>>Ma nca la traduzione (W08 163 0).</error>
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	2				
TLV	CZE	1		2		
VLA	ESP	2				
VLEP	FRA	2				
WEL	GBR			2		
TLV	GRC	2		2		
GVI/KGVI	HRV			2		
AK	HUN	2		2		
NDS/NDSCh	POL	0,5		1		
NPEL	SVK	2				
TLV-ACGIH				2 (C)		

Health - Derived no-effect	ievei - DNEL / L	JWIEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Inhalation	1 mg/m3		1 mg/m3		1 mg/m3	•	1 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.

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 III 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 a hood visor or protective visor combined with airtight goggles (see standard EN 166).



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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 B 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.

Not available

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid
Colour straw yellow
Odour characteristic

Odour threshold Not available

pH 13

Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point > 60 °C Evaporation rate Not available Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Not available Upper explosive limit Not available Vapour pressure Vapour density Not available 1,065 - 1,075 Relative density Solubility Not available Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available 500 - 1000 cps Viscosity Not available Explosive properties

9.2. Other information

Oxidising properties

Information not available



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SECTION 10. Stability and reactivity

10.1. Reactivity

Information not available

10.2. Chemical stability

Information not available

10.3. Possibility of hazardous reactions

Contact with strong acids causes the development of toxic gases.

10.4. Conditions to avoid

SODIUM HYDROXIDE

Avoid exposure to: air, moisture, sources of heat.

10.5. Incompatible materials

SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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



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LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

SODIUM HYDROXIDE

LD50 (Oral) 1350 mg/kg Rat

LD50 (Dermal) 1350 mg/kg Rat

IPOCLORITO DI SODIO

LD50 (Oral) > 5000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Ratto

LC50 (Inhalation) > 10,5 mg/l/4h Ratto

Amines, C12-18 (even numbered) - alkyldimethyl, N-oxides

LD50 (Oral) 846 mg/kg RATTO

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

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

Does not meet the classification criteria for this hazard class



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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

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. **12.1. Toxicity**

IPOCLORITO DI SODIO

LC50 - for Fish 0,059 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 0,032 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,0183 mg/l/72h Gracilaria tenuistipitata

Chronic NOEC for Fish 0,04 mg/l

Chronic NOEC for Crustacea 0,007 mg/l Oyster

Chronic NOEC for Algae / Aquatic Plants 0,364 mg/l Algae fresh water

Amines, C12-18 (even numbered) -

alkyldimethyl, N-oxides

 LC50 - for Fish
 1,26 mg/l/96h

 EC50 - for Crustacea
 2,4 mg/l/48h Dafnia

Chronic NOEC for Algae / Aquatic Plants 0,067 mg/l

12.2. Persistence and degradability

SODIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: information not available

IPOCLORITO DI SODIO

Solubility in water 1000 - 10000 mg/l

Degradability: information not available

12.3. Bioaccumulative potential



-3,42

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IPOCLORITO DI SODIO

Partition coefficient: n-octanol/water

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 greater than 0,1%.

12.6. 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

ADR / RID, IMDG, 1760

IATA:

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, N.O.S. (IPOCLORITO DI SODIO)

IMDG: CORROSIVE LIQUID, N.O.S. (IPOCLORITO DI SODIO)

IATA: CORROSIVE LIQUID, N.O.S. (IPOCLORITO DI SODIO)

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



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ADR / RID, IMDG,

IATA:

14.5. Environmental hazards

ADR / RID: Environmentally

Hazardous

IMDG: Marine Pollutant

IATA:

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

Cargo:

Pass.:

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Tunnel Quantities: 1

restriction

code: (E)

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

Quantities: 1

IATA:

Maximum quantity: 30 L

Packaging instructions:

855 Maximum Packaging

quantity: 1 L instructions:

851

Special Instructions: A3, A803

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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: E1

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

Product

3 - 40 Point

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None



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Substances subject to exportation reporting pursuant to (EC) Reg. 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:

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

Skin Corr. 1ASkin corrosion, category 1ASkin Corr. 1BSkin corrosion, category 1BEye Dam. 1Serious eye damage, category 1Skin Irrit. 2Skin irritation, category 2

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 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H315 Causes skin irritation.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.
 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
- 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



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- 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%
- 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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
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- 4. Regulation (EU) 2015/830 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)
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- 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII 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

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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 11 / 12 / 15.