STANK surface care solutions	FILA INDUSTRIA CHIMICA S.P.A.	Revision nr. 16
		Dated 21/03/2019
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SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name PH ZERO

Chemical name and synonym Strong acid descaler

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

Intended use Strong acid descaler.

Identified Uses	Industrial	Professional	Consumer
Uses	✓	✓	✓
1.3. Details of the supplier of the safety data sheet Name Full address District and Country	FILA INDUSTRIA CHIMICA S Via Garibaldi, 58 35018 San Martino di Lupari ITALIA		
	Tel. +39.049.9467300		
	Fax +39.049.9460753		
e-mail address of the competent person			
responsible for the Safety Data Sheet	sds@filasolutions.com		
1.4. Emergency telephone number For urgent inquiries refer to	TEL +39.049.9467300 (Monda	ay –	

Friday; 8.30 - 12.30 and 14.00 - 17.30)

(Wales); IRELAND 018092166

UNITED KINGDOM: NHS Direct 111 (In England, Scotland North Ireland) 08454647

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
Skin corrosion, category 1
Serious eye damage, category 1
Hazardous to the aquatic environment, chronic toxicity,
Hazardous to the aquatic environment, chronic toxicity,
Hazardous to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Hazmful to aquatic life with long lasting effects.

category 3



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2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H290 May be corrosive to metals.

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

Precautionary statements:

P501 Dispose of contents / container in accordance with local/regional/national/international regulation.

P102 Keep out of reach of children.

P260 Do not breathe dust / fume / gas / mist / 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: PHOSPHORIC ACID

HYDROCHLORIC ACID

OLEYL BIS(2-HYDROXYETHYL)AMINE

TRIMETHYLOCTADECYLAMMONIUM CHLORIDE

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

3.1. Substances



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Information not relevant

(EU) no. 2015/830

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
PHOSPHORIC ACID		
CAS 7664-38-2	14 ≤ x < 19	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, Classification note according to Annex VI to the CLP Regulation: B
EC 231-633-2		
INDEX 015-011-00-6		
Reg. no. 01-2119485924-24		
HYDROCHLORIC ACID		
CAS 7647-01-0	$4 \le x < 5$	Met. Corr. 1 H290, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: B
EC 231-595-7		Ç Ç
INDEX 017-002-01-X		
Reg. no. 01-2119484862-27		
OLEYL BIS(2- HYDROXYETHYL)AMINE		
CAS 25307-17-9	1 ≤ x < 2	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 246-807-3		· '
INDEX -		
Reg. no. 01-2119510876-35		
TRIMETHYLOCTADECYLAMMONIU M CHLORIDE		

M CHLORIDE

CAS 112-03-8 0,3 \leq x < 0,35 Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1

H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1

EC 203-929-1

INDEX -

Reg. no. 01-2119970559-21

Benzyl acetate

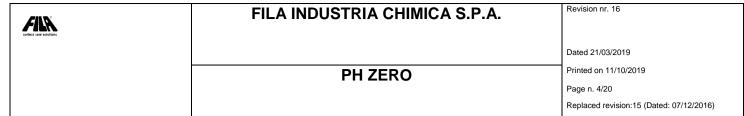
CAS 140-11-4 $0 \le x < 0.02$ Aquatic Chronic 3 H412

EC 205-399-7

INDEX -

Reg. no. 01-2119638272-42

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



According to Annex II to REACH - Regulation 2015/830

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 Do not breathe combustion products.

5.3. Advice for firefighters

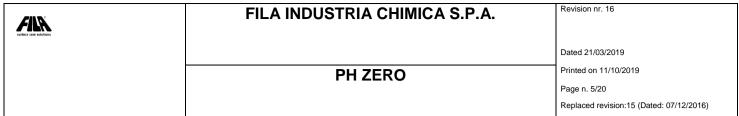
GENERAL INFORMATION

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



According to Annex II to REACH - Regulation 2015/830

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.

Storage class TRGS 510 (Germany): 8B

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE Česká Republika

Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci



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(EU) no. 2015/830

According to Annex II to REACH - Regulation 2015/830

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNIK	Danmark	Croppovagardiar par stoffer og meterialer

DNK ESP FIN FRA España INSHT - Límites de exposición profesional para agentes químicos en España 2017

HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5 JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 Suomi

France

GBR United Kingdom EH40/2005 Workplace exposure limits

GRC ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012 Ελλάδα

HRV Hrvatska NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva

HUN Magyarország 50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról

ITA NLD Italia Decreto Legislativo 9 Aprile 2008, n.81 Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18 Nederland

NOR Norge

Veiledning om Administrative normer for forurensning i arbeidsatmosfære
ROZPORZĄDZENIE MINISTRA RODZIN Y, PRAC Y I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r POL Polska PRT Portugal Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos

trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06

ROU România Monitorul Oficial al României 44; 2012-01-19 Slovensko

NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007 Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o SVK SVN Sloveniia

varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu Occupational Exposure Limit Values, AF 2011:18

Sverige SWE TUR KİMYASAL MADDELERLE ÇALIŞMALARDA SAĞLIK VE GÜVENLİK ÖNLEMLERİ HAKKINDA Türkiye

YÖNETMELİK - Resmi Gazete Tarihi: 12.08.2013 Resmi Gazete Sayısı: 28733

Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive

2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2019**

PHO	SPF	IOR	IC A	CID

OEL EU

EU

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	1		2			
AGW	DEU	2		4		INHAL	
MAK	DEU	2		4		INHAL	
TLV	DNK	1					
VLA	ESP	1		2			
HTP	FIN	1		2			
VLEP	FRA	1	0,2	2	0,5		
WEL	GBR	1		2			
TLV	GRC	1		3			
GVI	HRV	1		2			
AK	HUN	1		2			
VLEP	ITA	1		2			
OEL	NLD	1		2			
TLV	NOR	1					
NDS	POL	1		2			
VLE	PRT	1		2			
TLV	ROU	1		2			



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NPHV	SVK	1	2	
MV	SVN	1	2	
MAK	SWE	1	3	
ESD	TUR	1	2	
OEL	EU	1	2	
TLV-ACGIH		1	3	

Health - Derived no-effect level - DNEL / DMEL									
	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			0,73 mg/m3	VND	2 mg/m3	VND	2,92 mg/m3	VND	

Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	7,6	5	15	10		
VLEP	ITA	8	5	15	10		
NDS	POL	5		10			
VLE	PRT	8	5	15	10		
TLV	ROU	8	5	15	10		
MV	SVN	8	5	16	10		
OEL	EU	8	5	15	10		
TLV-ACGIH				2,9 (C)	2 (C)		
Predicted no-effect cond	centration - PNEC						
Normal value in fresh w	ater			0,036		mg/l	
Normal value in marine	water			0,036		mg/l	
Normal value for water,	intermittent release			0,045		mg/l	
Normal value of STP mi	croorganisms			0,036		mg/l	

Health - Derived no-effect level - DNEL / DMEL									
	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			15 mg/m3	8 mg/m3			15 mg/m3	8 mg/m3	

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,000214	mg/l	
Normal value in marine water	0,0000214	mg/l	



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Normal value for fresh water sediment	1,692	mg/kg	
Normal value for marine water sediment	0,1692	mg/kg	
Normal value for water, intermittent release	0,00087	mg/l	
Normal value of STP microorganisms	1,5	mg/l	
Normal value for the food chain (secondary poisoning)	2	mg/kg	
Normal value for the terrestrial compartment	5	mg/kg	

Health - Derived no-ef	fect level - DNEL / [DMEL						
	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			VND	0,214 mg/kg				
				bw/d				
Inhalation			VND	0,745 mg/m3			VND	2,112 mg/m3
Skin			VND	0,214 mg/kg			VND	0,3 mg/kg
				hw/d				hw/d

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,00068	mg/l	
Normal value in marine water	0,000068	mg/l	
Normal value for fresh water sediment	9,27	mg/kg	
Normal value for marine water sediment	0,927	mg/kg	
Normal value for water, intermittent release	0,00037	mg/l	
Normal value of STP microorganisms	0,48	mg/l	
Normal value for the terrestrial compartment	7	mg/kg	

Health - Derived no-eff	ect level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral Inhalation			NPI	2,83 mg/kg/d 0,98 mg/m3			NPI	3,32 mg/m3
Skin			0,06 mg/cm2	2,83 mg/kg bw/d			0,11 mg/cm2	4,7 mg/kg bw/d

Benzyl acetate Threshold Limit Value					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU		10		

Legend:



According to Annex II to REACH - Regulation 2015/830

(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).

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

9.1. Information on basic physical and chemical properties

Appearance liquid



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ColourtransparentOdourpungentOdour thresholdNot available

pH 0,8

Melting point / freezing point Not available Initial boiling point Not available Not available Boiling range > 93 °C Flash point Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available

Relative density 1,111

Solubility Readily soluble
Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 0,21 % - 2,28 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

PHOSPHORIC ACID

Decomposes at temperatures above 200°C/392°F.



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10.2. Chemical stability

(EU) no. 2015/830

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.

PHOSPHORIC ACID

Risk of explosion on contact with: nitromethane. May react dangerously with: alkalis, sodium borohydride.

HYDROCHLORIC ACID

Risk of explosion on contact with: alkaline metals, aluminium powder, hydrogen cyanide, alcohol.

10.4. Conditions to avoid

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

10.5. Incompatible materials

None.

PHOSPHORIC ACID

Incompatible with: metals, strong alkalis, aldehydes, organic sulphides, peroxides.

HYDROCHLORIC ACID

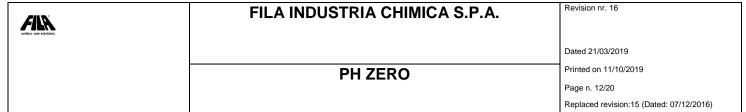
Incompatible with: alkalis,organic substances,strong oxidants,metals.

10.6. Hazardous decomposition products

Due to thermal decomposition or in case of fire, gases and vapors can be released that are potentially harmful to health.

PHOSPHORIC ACID

May develop: phosphoryl oxides.



According to Annex II to REACH - Regulation 2015/830

HYDROCHLORIC ACID

In decomposition develops: hydrochloric acid fumes.

SECTION 11. Toxicological information

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

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

11.1. Information on 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

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
>2000 mg/kg
LD50 (Dermal) of the mixture:
>2000 mg/kg

PHOSPHORIC ACID

LD50 (Oral) 1530 mg/kg Rat

LD50 (Dermal) 2740 mg/kg Rabbit



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LC50 (Inhalation) > 0,85 mg/l/1h Rat

OLEYL BIS(2-HYDROXYETHYL)AMINE

LD50 (Oral) 1260 mg/kg rat

(EU) no. 2015/830

TRIMETHYLOCTADECYLAMMONIUM CHLORIDE

LD50 (Oral) 702,5 mg/kg rat

LD50 (Dermal) 1600 mg/kg rabbit

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

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

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class



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STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

(EU) no. 2015/830

Does not meet the classification criteria for this hazard class

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. **12.1. Toxicity**

PHOSPHORIC ACID

LC50 - for Fish 3,25 mg/l/96h Lepomis macrochirus EC50 - for Crustacea > 100 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Desmodesmus subspicatus

OLEYL BIS(2-HYDROXYETHYL)AMINE

LC50 - for Fish 0,1 mg/l/96h Danio rerio
EC50 - for Crustacea 0,043 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,054 mg/l/72h Pseudokirchnerella subcapitata

TRIMETHYLOCTADECYLAMMONIUM

CHLORIDE

LC50 - for Fish 0,07 mg/l/96h Brachydanio rerio (new name: Danio rerio)

EC50 - for Crustacea 0,03 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 0,05 mg/l/72h Pseudokirchnerella subcapitata (reported as Selenastrum

capricornutum)

Chronic NOEC for Fish 0,0322 mg/l Pimephales promelas
Chronic NOEC for Crustacea 0,0068 mg/l Daphnia magna

12.2. Persistence and degradability

PHOSPHORIC ACID

Solubility in water > 850000 mg/l

Degradability: information not available



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HYDROCHLORIC ACID

Solubility in water

(EU) no. 2015/830

> 10000 mg/l

Degradability: information not available

OLEYL BIS(2-HYDROXYETHYL)AMINE

Entirely degradable

TRIMETHYLOCTADECYLAMMONIUM CHLORIDE Rapidly degradable 12.3. Bioaccumulative potential

Information not available

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.

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



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ADR / RID, IMDG,

(EU) no. 2015/830

3264

IATA:

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION; HYDROCHLORIC ACID

SOLUTION)

IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION; HYDROCHLORIC ACID,

SOLUTION)

IATA: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION; HYDROCHLORIC ACID

SOLUTION)

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, III

IATA:

IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

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

code: (E)

Special Provision: -

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

Cargo: Maximum quantity: 30

Pass.: Maximum Packaging

Maximum Packaging quantity: 1 instructions:

808

Packaging

instructions:

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	Special Instructions:	
14.7. Transport in bulk according to	o Annex II of Marpol and the IBC Code	
Information not relevant		
SECTION 15. Regulatory	y information	
15.1. Safety, health and environm	nental 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	
Substances in Candidate List (Art. 59	REACH)	
On the basis of available data, the pro	oduct does not contain any SVHC in percentage greater than 0,1%.	
Substances subject to authorisation (Annex XIV REACH)	
None		
Substances subject to exportation rep	porting pursuant to (EC) Reg. 649/2012:	
None		
Substances subject to the Rotterdam	Convention:	
None		
Substances subject to the Stockholm	Convention:	
None		

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.

Healthcare controls

15.2. Chemical safety assessment



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A chemical safety assessment has been performed for the following contained substances

PHOSPHORIC ACID

(EU) no. 2015/830

HYDROCHLORIC ACID

OLEYL BIS(2-HYDROXYETHYL)AMINE

TRIMETHYLOCTADECYLAMMONIUM CHLORIDE

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. 3

Acute toxicity, category 3

Acute Tox. 4

Skin Corr. 1B

Skin Corr. 1C

Skin corrosion, category 1C

Skin Corr. 1

Skin corrosion, category 1

Skin corrosion, category 1

Skin corrosion, category 1

Skin corrosion, category 1

Skin corrosion, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

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.
H311 Toxic in contact with skin.
H302 Harmful if swallowed.

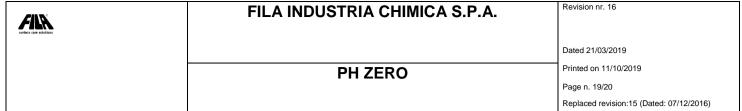
H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 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.

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



According to Annex II to REACH - Regulation 2015/830

- **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%
- 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

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- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
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- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
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- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII 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.

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