NANOI	PHOS S.A.		
		Dated 02/09/2020	
		First compilation	
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	Safety Data Sheet		
Accord	ing to Annex II to REACH - Regulation 2015/830		
SECTION 1. Identification of the subs	stance/mixture and of the company/unde	rtaking	
1.1. Product identifier			
Code:	NanoPhos_GA_020920-036		
Product name	SurfaPore T		
1.2. Relevant identified uses of the substance or m	ivture and uses advised against		
	vater proofing for marbles		
1.3. Details of the supplier of the safety data sheet			
Name Full address	NANOPHOS S.A. Technological & Cultural Park		
District and Country	19 500 Lavrio (Greece)		
	Greece		
	Tel. +30 22920 69312		
	Fax +30 22920 69303		
e-mail address of the competent person			
responsible for the Safety Data Sheet	iarabatz@NanoPhos.com		
Product distribution by:	Ioannis Arabatzis		
1.4. Emergency telephone number For urgent inquiries refer to	+30 22920 69312		
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
	e provisions set forth in (EC) Regulation 1272/2008 (CLP)		
	neet that complies with the provisions of (EU) Regulation 201 In and/or the environment are given in sections 11 and 12 of t		

Hazard classification and indication:		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity,	H411	Toxic to aquatic life with long lasting effects.
category 2		

## 2.2. Label elements

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

Hazard pictograms:

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.	¥2		
Signal words:	Warning		
Hazard statements:			
H317	May cause an allergic skir	n reaction.	
H411 EUH208	Toxic to aquatic life with lo	ong lasting effects. kysilyl) propyl) ethylenediamine	
Precautionary stateme	ents:		
P280	Wear protective gloves.		
P273 P391	Avoid release to the enviro Collect spillage.	onment.	
P272	Contaminated work clothin	ng should not be allowed out of the workplace.	
P261 P333+P313		curs: Get medical advice / attention.	
P362+P364	Take off contaminated clo	thing and wash it before reuse.	
Contains:	Silsesquioxanes, (3-(2-am	ninoethyl)amino propyl)methyl, methoxy-terminated	
2.3. Other hazards			
		etais and DDT and DD is accountered exacted than 0.40/	
On the basis of availat	ble data, the product does not co	Intain any PBT of VPVB in percentage greater than 0,1%.	
	ole data, the product does not con		
SECTION 3. C			
SECTION 3. C			
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy	omposition/informatio x = Conc. % 3-(2-aminoethyl)	on on ingredients	
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy	omposition/informatio x = Conc. % 3-(2-aminoethyl)	on on ingredients Classification 1272/2008 (CLP) Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H4	00 M=1, Aquatic
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy terminated	omposition/informatio x = Conc. % 3-(2-aminoethy!) yl, methoxy-	on on ingredients Classification 1272/2008 (CLP)	00 M=1, Aquatic
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy terminated CAS 145775-27-5	omposition/informatio x = Conc. % 3-(2-aminoethy!) yl, methoxy-	on on ingredients Classification 1272/2008 (CLP) Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H4	900 M=1, Aquatic
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy terminated CAS 145775-27-5 EC 604-492-3	omposition/informatio x = Conc. % 3-(2-aminoethy!) yl, methoxy-	on on ingredients Classification 1272/2008 (CLP) Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H4	₽00 M=1, Aquatic
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy terminated CAS 145775-27-5 EC 604-492-3 INDEX -	omposition/informatio x = Conc. % 3-(2-aminoethy!) yl, methoxy-	on on ingredients Classification 1272/2008 (CLP) Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H4 Chronic 1 H410 M=1 Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H31	
SECTION 3. C 3.2. Mixtures Contains: Identification Silsesquioxanes, (3 amino propyl) methy terminated CAS 145775-27-5 EC 604-492-3 INDEX - METHANOL	omposition/informatio x = Conc. % 8-(2-aminoethyl) yl, methoxy- 5 < x < 10	on on ingredients Classification 1272/2008 (CLP) Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H4 Chronic 1 H410 M=1	

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0 < x < 1

#### N-(3-(Trimethoxysilyl) propyl) ethylenediamine

CAS 1760-24-3

Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 217-164-6 INDEX -

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. Get medical advice/attention 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 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).

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### **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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during 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 the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. 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

Regulatory References:

FRA France GBR United Kingdom Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS EH40/2005 Workplace exposure limits (Third edition, published 2018)

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GRC	Ελλάδα	ЕФНМЕРІ
		Α ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
EU	OEL EU	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

#### METHANOL

Threshold Limit Val	ue							
Туре	Country	TWA/8h		STEL/15min		Remarks /		
						Observatior	IS	
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	260	200	1300	1000	SKIN	11	
WEL	GBR	266	200	333	250	SKIN		
TLV	GRC	260	200	325	250			
OEL	EU	260	200			SKIN		
TLV-ACGIH		262	200	328	250	SKIN		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

#### 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.

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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
Colour	yellowish
Odour	imperceptible
Odour threshold	Not available
рН	11
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
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.00±0.05 kg/L
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	2 mPa.s
Explosive properties	Not available
Oxidising properties	Not available
9.2. Other information	
1/00 / Directive 2010/75/50) -	1.60.9/ 16.00 a/li

VOC (Directive 2010/75/EC) : 1,60 % - 16,00 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.

#### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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The vapours may also form explosive mixtures with the air.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

# **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

METHANOL

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

#### Interactive effects

Information not available

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: >2000 mg/kg

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N-(3-(Trimethoxysilyl)propyl)ethylenediamine

LD50 (Oral) 7,669 mg/kg

LC50 (Inhalation) 597 mg/l

#### **SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains:N-(3-(Trimethoxysilyl) propyl) ethylenediamine

#### 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

#### 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

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# **SECTION 12. Ecological information**

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

Silsesquioxanes, (3-(2-aminoethyl)amino propyl)methyl, methoxy-terminated EC50 - for Crustacea	1 mg/l/48h DAPHNIA
--	--------------------

### 12.2. Persistence and degradability

METHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable	
12.3. Bioaccumulative potential	
METHANOL	
Partition coefficient: n-octanol/water	-0,77

#### 12.4. Mobility in soil

BCF

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%.

0,2

#### 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.

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# **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, 3082 IATA:	
ADR / RID: In accordance with Spec	cial Provision 375, this product, when is packed in receptacles of a capacity
5Kg or 5L, is not submi	tted to ADR provisions.
IMDG: In accordance with Sect	tion 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity
5Kg or 5L, is not submi	tted to IMDG Code provisions.
IATA: In accordance with SP A	A197, this product, when is packed in receptacles of a capacity
5Kg or 5L, is not submi	tted to IATA dangerous goods regulations.

#### 14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, (Silsesquioxanes, (3-(2-aminoethyl) amino propyl)
11/10/0	methyl, methoxy-terminated)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, (Silsesquioxanes, (3-(2-aminoethyl) amino propyl) methyl, methoxy-terminated)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, (Silsesquioxanes, (3-(2-aminoethyl) amino propyl) methyl, methoxy-terminated)

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

ADR / RID:	Class: 9	Label: 9	
IMDG:	Class: 9	Label: 9	, M
ΙΑΤΑ:	Class: 9	Label: 9	

#### 14.4. Packing group

ADR / RID, IMDG, III IATA:

#### 14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous
IMDG:	Marine Pollutant
IATA:	Environmentally Hazardous

### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	
IMDG:	Special Provision: - EMS: F-A, S-F	



Limited Quantities: 5 L Tunnel restriction code: (-)

Limited Quantities: 5

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IATA:	Cargo: Pass.: Special Instru	ctions:	L Maximum quantity: 450 L Maximum quantity: 450 L A97, A158, A197	Packaging instructions: 964 Packaging instructions: 964
14.7. Transport in bulk a	according to Annex II of Marpol	and the IBC Code		
Information not relevant				
SECTION 15. Re	gulatory information			
15.1. Safety, health an	d environmental regulations/leg	gislation specific for the sul	bstance or mixture	
Seveso Category - Direct	ive 2012/18/EC: E2			
Restrictions relating to the	e product or contained substances	s pursuant to Annex XVII to E	C Regulation 1907/2006	
Product				
Point	3 - 40			
Contained substance				
Point	69	METHANOL		
Substances in Candidate	<u>List (Art. 59 REACH)</u>			
On the basis of available	data, the product does not contain	n any SVHC in percentage gr	eater than 0,1%.	
Substances subject to aut	thorisation (Annex XIV REACH)			
None				
Substances subject to exp	portation reporting pursuant to (E	C) Reg. 649/2012:		
None				
Substances subject to the	Rotterdam Convention:			
None				
Substances subject to the	Stockholm Convention:			
None				
Healthcare controls				
Workers exposed to this o workers' health and safety	chemical agent must not undergo / are modest and that the 98/24/E	health checks, provided that C directive is respected.	available risk-assessment da	ata prove that the risks related to the

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#### 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:

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, 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 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

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
- 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%

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- **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 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 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 (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) 2016/918 (VIII Atp. CLP) of the European Parliament
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 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
- 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.

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.