NA	NOPHOS S.A.	Revision nr. 3 Dated 03/08/2018
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Ad	Safety Data S	
SECTION 1. Identification of the	substance/mixture and o	f the company/undertaking
<b>1.1. Product identifier</b> Code: Product name	NanoPhos_GA_02082018-0 SurfaPaint Wood Varnish U	
1.2. Relevant identified uses of the substance         Intended use       Satin, transpare		inst n excellent anti-staining and UV protection.
<ul> <li><b>1.3. Details of the supplier of the safety data</b> a Name</li> <li>Full address</li> <li>District and Country</li> <li>e-mail address of the competent person</li> <li>responsible for the Safety Data Sheet</li> <li>Product distribution by:</li> </ul>	sheet NANOPHOS S.A. Technological & Science P. 19 500 Lavrio (Greece) Greece Tel. +30 22920 69312 Fax +30 22920 69303 iarabatz@NanoPhos.com Ioannis Arabatzis	ark
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	+30 22920 69312	
SECTION 2. Hazards identification	on	
The product is classified as hazardous pursuant supplements). The product thus requires a safety d Any additional information concerning the risks for l	atasheet that complies with the prov	
Hazard classification and indication: Skin sensitization, category 1	H317	May cause an allergic skin reaction.
2.2. Label elements		
Hazard labelling pursuant to EC Regulation 1272/2 Hazard pictograms:	008 (CLP) and subsequent amendm	ents and supplements.

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Signal words:	Warning		
azard statements:			
H317 EUH208	BENZOTRIAZOL-2-YL)-5- TERT-BUTYL-4-HYDROXY	:NZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDR( PHENYL)PROPIONYLOXYPOLY(OXYETHYLE ROXY-PHENYL)PROPIONYL-OMEGA-HYDR(	ENE), ALPHA-3-(3-(2H-BENZOTRIAZOL-2-
recautionary statements	s:		
P261 P271 P101 P102 P103	Avoid breathing fume / gas / Use only outdoors or in a we If medical advice is needed, Keep out of reach of childrer Read label before use.	ell-ventilated area. have product container or label at hand.	
Contains:	Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol-3-one		
contains.	Mixture of 5-chloro-2-methy	-2H- isothiazol-3-one and 2-methyl-2H-isothiazo	ol-3-one
.3. Other hazards		-2H- isothiazol-3-one and 2-methyl-2H-isothiazo	ol-3-one
3. Other hazards			
<b>.3. Other hazards</b> In the basis of available	data, the product does not contai	in any PBT or vPvB in percentage greater than	
3. Other hazards n the basis of available SECTION 3. Co		in any PBT or vPvB in percentage greater than	
3. Other hazards on the basis of available SECTION 3. Co 1. Substances	data, the product does not contai	in any PBT or vPvB in percentage greater than	
3. Other hazards on the basis of available SECTION 3. Co .1. Substances	data, the product does not contai	in any PBT or vPvB in percentage greater than	
3. Other hazards In the basis of available SECTION 3. Co 1. Substances formation not relevant 3.2. Mixtures	data, the product does not contai	in any PBT or vPvB in percentage greater than	
3. Other hazards n the basis of available SECTION 3. Co 1. Substances formation not relevant 3.2. Mixtures	data, the product does not contai	in any PBT or vPvB in percentage greater than	
3. Other hazards n the basis of available SECTION 3. Co 1. Substances formation not relevant 3.2. Mixtures ontains: Identification DIPROPYLENE GLYCO	data, the product does not contait pmposition/information x = Conc. %	in any PBT or vPvB in percentage greater than on ingredients	0,1%.
3. Other hazards In the basis of available SECTION 3. Co 1. Substances Iformation not relevant 3.2. Mixtures Identification DIPROPYLENE GLYC MONOMETHYL ETHE	to data, the product does not contain performation/information x = Conc. %	in any PBT or vPvB in percentage greater than a on ingredients	0,1%.
3. Other hazards in the basis of available SECTION 3. Co 1. Substances formation not relevant 3.2. Mixtures Diffication DIPROPYLENE GLYC MONOMETHYL ETHE CAS 34590-94-8 EC 252-104-2 INDEX -	a data, the product does not contain pmposition/information x = Conc. % COL R 0 < x < 5	in any PBT or vPvB in percentage greater than a on ingredients	0,1%.
3. Other hazards an the basis of available SECTION 3. Co 1. Substances formation not relevant 3.2. Mixtures ontains: Identification DIPROPYLENE GLYC MONOMETHYL ETHE CAS 34590-94-8 EC 252-104-2 INDEX - 2-(2-BUTOXYETHOXY CAS 112-34-5	x = Conc. % COL R 0 < x < 5 $0 < x < 5$	in any PBT or vPvB in percentage greater than a on ingredients Classification 1272/2008 (CLP) Substance with a community workplace exp	0,1%.
3. Other hazards a the basis of available SECTION 3. Co 1. Substances formation not relevant 3.2. Mixtures ontains: Identification DIPROPYLENE GLYC MONOMETHYL ETHE CAS 34590-94-8 EC 252-104-2 INDEX - 2-(2-BUTOXYETHOXY CAS 112-34-5 EC 203-961-6	x = Conc. % COL R 0 < x < 5 $0 < x < 5$	in any PBT or vPvB in percentage greater than a on ingredients Classification 1272/2008 (CLP) Substance with a community workplace exp	0,1%.

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ALPHA-3-(2H-BENZOTRIAZOL-2-YL)-5 TERT-BUTYL-4- HYDROXYPHENYL)PROPIONYLOX YPOLY(OXYETHYLENE) CAS 104810-47-1 EC 400-830-7 INDEX -	5 <b>-TERT-BUTYL-4-H</b> 0 < x < 1	YDROXYPHENYL-PROPIONYL-OMEGA-3-(3-(2H-BEN Skin Sens. 1 H317, Aquatic Chronic 2 H411	ZOTRIAZOL-2-YL)-5-
ALPHA-3-(3-(2H-BENZOTRIAZOL- 2-YL)-5-TERT-BUTYL-4-HYDROXY- PHENYL)PROPIONYL-OMEGA- HYDROXYPOLY(OXYETHYLENE) CAS 104810-48-2 EC 400-830-7 INDEX -	0 < x < 1	Skin Sens. 1 H317, Aquatic Chronic 2 H411	
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H- isothiazol-3-one CAS 55965-84-9 EC - INDEX 613-167-00-5	0,0015 < x < 0,06	Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic A Aquatic Chronic 1 H410 M=1	

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

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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**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

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

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

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# SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
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 2018

Threshold Limit Va		. ETHER					
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	308	50			SKIN	
WEL	GBR	308	50			SKIN	
TLV	GRC	600	100	900	150		
OEL	EU	308	50			SKIN	
TLV-ACGIH		606	100	909	150	SKIN	

#### 2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Va						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	GRC	67,5	10	101,2	15	
OEL	EU	67,5	10	101,2	15	
TLV-ACGIH		66	10			
Predicted no-effect con	ncentration - PNEC					
Normal value in fresh	water			1		mg/l
Normal value in marine	e water			0,1		mg/l
Normal value for fresh	water sediment			4		mg/kg
Normal value for marin	ne water sediment			0,4		mg/kg

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.

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#### 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 Directive 89/686/EEC 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 opencircuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

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

#### 9.1. Information on basic physical and chemical properties

#### 9.2. Other information

Information not available

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# SECTION 10. Stability and reactivity

#### 10.1. Reactivity

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react with: oxidising substances. When heated to decomposition releases: harsh fumes, zinc alloys.

#### 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.

#### 2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.

#### 10.4. Conditions to avoid

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

#### 2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

#### 10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

#### 10.6. Hazardous decomposition products

#### 2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

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# **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

2-(2-BUTOXYETHOXY) ETHANOL

WORKERS: inhalation; contact with the skin.

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

#### 2-(2-BUTOXYETHOXY) ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

ACUTE TOXICITY

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)

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

LC50 (Inhalation) 0,51 mg/l/4h Rat

2-(2-BUTOXYETHOXY) ETHANOL

LD50 (Oral) 3384 mg/kg Rat

LD50 (Dermal) 2700 mg/kg Rabbit

**SKIN CORROSION / IRRITATION** 

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pes not meet the classification criteria for this hazard class	
ERIOUS EYE DAMAGE / IRRITATION	
pes not meet the classification criteria for this hazard class	
ESPIRATORY OR SKIN SENSITISATION	
ensitising for the skin ay produce an allergic reaction.Contains:ALPHA-3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYD ENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXYPHENYL)PROPIONYLOXYPOLY(OXYETHYLENE .PHA-3-(3-(2H-BENZOTRIAZOL-2-YL)-5-TERT-BUTYL-4-HYDROXY-PHENYL)PROPIONYL-OMEGA-	Ξ)
ERM CELL MUTAGENICITY	
pes not meet the classification criteria for this hazard class	
ARCINOGENICITY	
pes not meet the classification criteria for this hazard class	
EPRODUCTIVE TOXICITY	
pes not meet the classification criteria for this hazard class	
TOT - SINGLE EXPOSURE	
pes not meet the classification criteria for this hazard class	
TOT - REPEATED EXPOSURE	
bes not meet the classification criteria for this hazard class	
SPIRATION HAZARD	

# SECTION 12. Ecological information

Does not meet the classification criteria for this hazard class

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

#### 12.1. Toxicity

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

LC50 - for Fish EC50 - for Crustacea 0,58 mg/l/96h 1,02 mg/l/48h

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2.2. Persistence and degradability			
DIPROPYLENE GLYCOL MONOMETHYL ETHER			
Solubility in water	1000 - 10000 mg/l		
Rapidly degradable			
2-(2-BUTOXYETHOXY)ETHANOL			
Solubility in water	1000 - 10000 mg/l		
Rapidly degradable 2.3. Bioaccumulative potential			
DIPROPYLENE GLYCOL MONOMETHYL ETHER			
Partition coefficient: n-octanol/water	0,0043		
2-(2-BUTOXYETHOXY)ETHANOL			
Partition coefficient: n-octanol/water	1		
2.4. Mobility in soil			
formation not available			
2.5. 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.

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## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

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

Not applicable

14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

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

Information not relevant

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SECTION 15. Reg	ulatory information	n	
15.1. Safety, health and	environmental regulation	ns/legislation specific for the substance or mixtur	e
Seveso Category - Directive	2012/18/EC: None		
Restrictions relating to the pr	oduct or contained substar	nces pursuant to Annex XVII to EC Regulation 1907/	2006
Product			
Point	3		
Contained substance			
Point	55	2-(2-	
		BUTOXYETHOXY)E THANOL	
Substances in Candidate Lis	<u>it (Art. 59 REACH)</u>		
On the basis of available dat	a, the product does not cor	ntain any SVHC in percentage greater than 0,1%.	
Substances subject to autho	risation (Annex XIV REACE	<u>H)</u>	
None			
Substances subject to expor	tation reporting pursuant to	9 (EC) Reg. 649/2012:	
None			
Substances subject to the Re	otterdam Convention:		
None			
Substances subject to the St	ockholm Convention:		
None			
Healthcare controls			
Workers exposed to this che workers' health and safety an		ergo health checks, provided that available risk-asse 24/EC directive is respected.	ssment data prove that the risks related to the
15.2. Chemical safety as	sessment		
No chemical safety assessm	ent has been processed fo	or the mixture and the substances it contains.	

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2

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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
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye 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%
- **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
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
   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) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X 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.

Changes to previous review:

The following sections were modified:

02.