1	NANOPHOS S.A.	Revision nr. 3
		Dated 23/05/2019
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	Safety Data Sheet According to Annex II to REACH - Regulation 2015/830)
SECTION 1. Identification of th	e substance/mixture and of the compa	ny/undertaking
1.1. Product identifier		
Code:	NanoPhos_GA_23052019-005	
Product name	SurfaMix P SB	
1.3. Details of the supplier of the safety da Name Full address	e Water Repellent Primer ata sheet NANOPHOS S.A. Technological & Cultural Park	
Intended use Solvent Base 1.3. Details of the supplier of the safety da Name	e Water Repellent Primer ata sheet NANOPHOS S.A.	
Intended use Solvent Base 1.3. Details of the supplier of the safety da Name Full address	e Water Repellent Primer ata sheet NANOPHOS S.A. Technological & Cultural Park 19 500 Lavrio (Greece)	
Intended use Solvent Base 1.3. Details of the supplier of the safety da Name Full address District and Country	e Water Repellent Primer ata sheet NANOPHOS S.A. Technological & Cultural Park 19 500 Lavrio (Greece) Greece	
Intended use Solvent Base 1.3. Details of the supplier of the safety da Name Full address	e Water Repellent Primer ata sheet NANOPHOS S.A. Technological & Cultural Park 19 500 Lavrio (Greece) Greece Tel. +30 22920 69312 Fax +30 22920 69303	
Intended use Solvent Base 1.3. Details of the supplier of the safety da Name Full address District and Country	e Water Repellent Primer ata sheet NANOPHOS S.A. Technological & Cultural Park 19 500 Lavrio (Greece) Greece Tel. +30 22920 69312	

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:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
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.



	NANOF	PHOS S.A.	Revision nr. 3 Dated 23/05/2019
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Hydrocarbons, C9, aromatics			
CAS 64742-95-6	30 < x < 50	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE	3 H335, STOT SE 3 H336,
EC 918-668-5		Aquatic Chronic 2 H411	
INDEX -			
NAPHTHA (PETROL.) HYDROTREATED HEAVY			
	0 < x < 5	Asp. Tox 1 H304 Classification note according	to Annex VI to the CLP
CAS 64742-48-9 EC 265-150-3	0 < x < 5	Asp. Tox. 1 H304, Classification note according Regulation: P	to Annex VI to the CLP

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.

INHĂLATION: 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. 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

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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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. 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 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

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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

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Valu	e						
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100		
TLV	GRC	435	100	650	150		
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		

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 Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

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.

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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.

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

9.2. Other information

Information not available

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.

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10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: 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

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

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

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx.

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1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

NAPHTHA (PETROL.) HYDROTREATED HEAVY

LD50 (Oral) > 5000 mg/kg Rat

LD50 (Dermal) > 2000 mg/kg Rabbit

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

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

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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STOT - SINGLE EXPOSURE

May cause respiratory irritation May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

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

NAPHTHA (PETROL.) HYDROTREATED HEAVY	
LC50 - for Fish	8,2 mg/l/96h Pimephales promelas
EC50 - for Crustacea	4,5 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	3,1 mg/l/72h Pseudokirchnerella subcapitata
12.2. Persistence and degradability	
XYLENE (MIXTURE OF ISOMERS)	
Solubility in water	100 - 1000 mg/l
Degradability: information not available	
NAPHTHA (PETROL.) HYDROTREATED HEAVY Rapidly degradable	
12.3. Bioaccumulative potential	
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: n-octanol/water	3,12
BCF	25,9
12.4. Mobility in soil	
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: soil/water	2,73
NAPHTHA (PETROL.) HYDROTREATED HEAVY	
Partition coefficient: soil/water	1,78

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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, 1263 IATA:

14.2. UN proper shipping name

ADR / RID:	PAINT RELATED MATERIAL
IMDG:	PAINT RELATED MATERIAL (Hydrocarbons, C9, aromatics)
IATA:	PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3

14.4. Packing group

ADR / RID, IMDG, III IATA:

14.5. Environmental hazards

ADR / RID:

Environmentally Hazardous





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IMDG:	Marine Pollutant		
IATA:	NO	\mathbf{v}	
or Air transport, e	environmentally hazardous mark is only mandatory for UN 3077	and UN 3082.	
4.6. Special prec	cautions for user		
ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special Provision: -		
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 I	
IATA:	Cargo:	Maximum quantity: 220	Packaging instructions:
	Pass.:	L Maximum quantity: 60 L	366 Packaging instructions:
	Special Instructions:	A3, A72,	355
		A192	
17 Transport in	bulk according to Anney II of Marnol and the IBC Code		
4.7. Transport in	n bulk according to Annex II of Marpol and the IBC Code		
4.7. Transport in			
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SECTION 1 15.1. Safety, he eveso Category -	evant I5. Regulatory information ealth and environmental regulations/legislation specific for - Directive 2012/18/EC: P5c-E2	A192	
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SECTION 1 15.1. Safety, he eveso Category -	evant I5. Regulatory information ealth and environmental regulations/legislation specific for - Directive 2012/18/EC: P5c-E2	A192	
SECTION 1 15.1. Safety, he eveso Category - estrictions relating roduct Point	evant 15. Regulatory information ealth and environmental regulations/legislation specific for - Directive 2012/18/EC: P5c-E2 ig to the product or contained substances pursuant to Annex XV	A192	
SECTION 1 15.1. Safety, he eveso Category - estrictions relatin roduct Point ubstances in Can	evant I.S. Regulatory information ealth and environmental regulations/legislation specific for - Directive 2012/18/EC: P5c-E2 ing to the product or contained substances pursuant to Annex XV 3 - 40	A192 the substance or mixture II to EC Regulation 1907/2006	
SECTION 1 15.1. Safety, he eveso Category - estrictions relatin roduct Point ubstances in Can	evant I5. Regulatory information ealth and environmental regulations/legislation specific for - Directive 2012/18/EC: P5c-E2 Ing to the product or contained substances pursuant to Annex XV 3 - 40 addate List (Art. 59 REACH)	A192 the substance or mixture II to EC Regulation 1907/2006	
SECTION 1 15.1. Safety, he eveso Category - estrictions relatin roduct Point ubstances in Can	evant I.S. Regulatory information ealth and environmental regulations/legislation specific for Directive 2012/18/EC: P5c-E2 ag to the product or contained substances pursuant to Annex XV 3 - 40 adidate List (Art. 59 REACH) ailable data, the product does not contain any SVHC in percenta	A192 the substance or mixture II to EC Regulation 1907/2006	

None

Substances subject to the Rotterdam Convention:

None

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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.

2

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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

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NEC: Predicted no effect concentration	
EACH: EC Regulation 1907/2006	
D: Regulation concerning the international transport of dangerous goods by train V: Threshold Limit Value	
V CEILING: Concentration that should not be exceeded during any time of occupational exposure.	
VA STEL: Short-term exposure limit	
VA: Time-weighted average exposure limit	
DC: Volatile organic Compounds WB: Very Persistent and very Bioaccumulative as for REACH Regulation	
GK: Water hazard classes (German).	
NERAL BIBLIOGRAPHY	
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 Regulation (EU) 2015/830 of the European Parliament	
Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament	
Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament	
Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament	
Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament	
Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament	
Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament	
Regulation (EU) 2016/1179 (IX Atp. CLP) Regulation (EU) 2017/776 (X Atp. CLP)	
e Merck Index 10th Edition	
andling Chemical Safety	
RS - Fiche Toxicologique (toxicological sheet) atty - Industrial Hygiene and Toxicology	
I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition	
A GESTIS website	
CHA website atabase of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy	
e for users:	
e information contained in the present sheet are based on our own knowledge on the date of the last	version. Users must verify the suitability a
roughness of provided information according to each specific use of the product.	
s document must not be regarded as a guarantee on any specific product property. a use of this product is not subject to our direct control; therefore, users must, under their own responsibili	ility comply with the current health and safe
s and regulations. The producer is relieved from any liability arising from improper uses.	
vide appointed staff with adequate training on how to use chemical products.	