NAN(OPHOS S.A.	Revision nr. 4
		Dated 19/06/2023
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		Replaced revision:3 (Dated: 24/10/2022)
	Safety Data Sheet to REACH - Regulation (EU) 2020/878 and to Annex II to UK bstance/mixture and of the company/under	
		5
1.1. Product identifier		
Code: Product name	NanoPhos_GA_020920-035 SurfaPore R	
1.2. Relevant identified uses of the substance or Intended use Water-proofing of p	mixture and uses advised against oorous clay based surfaces	
1.3. Details of the supplier of the safety data she	et	
Name	NANOPHOS S.A.	
Full address District and Country	Technological & Cultural Park 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	
Supplier:	Ioannis Arabatzis	
1.4. Emergency telephone number For urgent inquiries refer to	+30 210 7793777	
SECTION 2. Hazards identification		
2.1. Classification of the substance or mixture		
	the provisions set forth in EC Regulation 1272/2008 (CLP). tances in concentrations such as to be declared in section no 2020/878.	o. 3, it requires a safety data sheet with
Hazard classification and indication:		
2.2. Label elements		
Hazard labelling pursuant to EC Regulation 1272/200	8 (CLP) and subsequent amendments and supplements.	
Hazard pictograms:		
Signal words:		
Hazard statements:		
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			(Caloa: 2 # 10/2022)
EUH208 Con	ety data sheet available or tains: Mixture of 5-chloro- v produce an allergic react	2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazo	I-3-one
Precautionary			
statements:			
	pose of contents or contain p out of reach of children.	ner according to local/national/international regulations	
		ave product container or label at hand.	
Product not intended for uses pro	ovided for by Directive 200)4/42/EC.	
	,		
2.3. Other hazards			
0.1%. SECTION 3. Composi 3.2. Mixtures Contains:	ition/information o	on ingredients	
Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)	
N-octyltriethoxysilane			
INDEX -	0 < x < 5	Skin Irrit. 2 H315	
EC 220-941-2			
CAS 2943-75-1			
Mixture of 5-chloro-2-methyl- isothiazol-3-one and 2-methyl- isothiazol-3-one INDEX 613-167-00-5		Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H	1301. Skin Corr. 1C
EC -		H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Aquatic Chronic 1 H410 M=100, EUH071, EUH208 Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,065 Skin Sens. 1B H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥	c Acute 1 H400 M=100, %,
CAS 55965-84-9		Eye Irrit. 2 H319: ≥ 0,06% STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA mists/powders: 0,005 mg/l	, ,
The full wording of hazard (H) ph	rases is given in section 1	6 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,

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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

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

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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

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Normal value in fresh water				0,00189	mį	g/l		
Normal value in marine wat	er			0,000189	mç	g/l		
Normal value for fresh water sediment		4,2	mç	g/kg				
Normal value for marine water sediment		0,42	mç	g/kg				
Normal value of STP microorganisms		100	mg	g/l				
Normal value for the food c	hain (secondary poison	ing)		10	mç	g/kg		
Health - Derived no-ef	ect level - DNEL / DEffects 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				1,25 mg/kg bw/d				
Inhalation				4,3 mg/m3				17,6 mg/m3
Skin				1,25 mg/kg bw/d				2,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): 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

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and type of use.

SKIN PROTECTION

Wear category I 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 B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance	Value liquid	Information
Colour	milky	
Odour	no odour	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH Kinematic viscosity	5-7 not available	Concentration: 100 %
Dynamic viscosity Solubility	10.5-12.5 not available	Method:Flow time ISO 2431
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0.99±0.05 kg/L	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

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Information not available

9.2.2. Other safety characteristics

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.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

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Information on likely routes of exposure		
Information not available		
Delayed and immediate effects as well as chronic effe	cts from short and long-term exposure	
Information not available		
Interactive effects		
Information not available		
ACUTE TOXICITY		
ATE (Inhalation) of the mixture:	Not classified (no significant component)	
ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant component) Not classified (no significant component)	
N-octyltriethoxysilane		
LD50 (Dermal): LD50 (Oral):	8000 mg/kg > 5110 mg/kg Rat	
LC50 (Inhalation vapours):	> 22 ppm/4h	
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and	2-methyl-2H-isothiazol-3-one	
LC50 (Inhalation mists/powders):	0,51 mg/l/4h Rat	
SKIN CORROSION / IRRITATION		
Does not meet the classification criteria for this hazard	l class	
SERIOUS EYE DAMAGE / IRRITATION		
Does not meet the classification criteria for this hazard	l class	
RESPIRATORY OR SKIN SENSITISATION		
May produce an allergic reaction. Contains:		
Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and	2-methyl-2H-isothiazol-3-one	

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	l
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	
Deep not most the electrification oritoria for this hazard elect	
Does not meet the classification criteria for this hazard class	

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Mixture of 5-chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H-isothiazol-3-one LC50 - for Fish

0,58 mg/l/96h

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EC50 - for Crustacea

12.2. Persistence and degradability

1,02 mg/l/48h

Information not available

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. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. 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

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 or ID number

not applicable

14.2. UN proper shipping name

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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. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

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

 Product
 40

 Point
 40

 Contained substance
 75

 Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

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not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

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:

Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1C	Skin corrosion, category 1C
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H330	Fatal if inhaled.
H310	Fatal in contact with skin.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
EUH071	Corrosive to the respiratory tract.	
EUH208	Contains <name of="" sensitising="" substance="">. May produce an allergic reaction.</name>	
EUH210	Safety data sheet available on request.	
ATE: Acute Toxicity CAS: Chemical Abs CE50: Effective con CE: Identifier in ESI CLP: Regulation (EC DNEL: Derived No E Ems: Emergency S GHS: Globally Harr IATA DGR: Internati IC50: Immobilizatior IMDG: International M INDEX: Identifier in LC50: Lethal Conce LD50: Lethal Conce D50: Lethal Conce D51: Predicted exp PEC: Predicted exp PNEC: PNEC: PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	tract Service Number centration (required to induce a 50% effect) S (European archive of existing substances) C) 1272/2008 Effect Level chedule nonized System of classification and labeling of chemicals ional Air Transport Association Dangerous Goods Regulation n Concentration 50% Maritime Code for dangerous goods faritime Organization Annex VI of CLP ntration 50% 60% Exposure Level accumulative and toxic as REACH Regulation ironmental Concentration osure level o effect concentration (EC) 1907/2006 forerning the international transport of dangerous goods by train it Value sentration that should not be exceeded during any time of occupational exposure. d average exposure limit erm exposure limit ic Compounds nt and very Bioaccumulative as for REACH Regulation	
Regulation (EC) 12 Regulation (EU) 20 Regulation (EU) 20 Regulation (EU) 28 Regulation (EU) 28 Regulation (EU) 48 Regulation (EU) 44 Regulation (EU) 20 Regulation (EU) 2	207/2006 (REACH) of the European Parliament 272/2008 (CLP) of the European Parliament 200/878 (II Annex of REACH Regulation) 20/2009 (I Atp. CLP) of the European Parliament 36/2011 (II Atp. CLP) of the European Parliament 37/2013 (IV Atp. CLP) of the European Parliament 37/2013 (IV Atp. CLP) of the European Parliament 35/2014 (VI Atp. CLP) of the European Parliament 2015/1221 (VII Atp. CLP) of the European Parliament 2016/918 (VIII Atp. CLP) 2017/776 (X Atp. CLP) 2018/669 (XI Atp. CLP) 2019/521 (XII Atp. CLP) 2019/1148 ation (UE) 2020/217 (XIV Atp. CLP) 2019/1148 ation (UE) 2020/1182 (XV Atp. CLP) ation (UE) 2021/643 (XVI Atp. CLP) ation (UE) 2021/643 (XVI Atp. CLP) ation (UE) 2021/849 (XVII Atp. CLP) ation (UE) 2021/849 (XVII Atp. CLP) ation (UE) 2022/692 (XVIII Atp. CLP)	

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