SAFETY DATA SHEET

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: NanoPhos_GA_240820-001
Product name NANOMAX CLEANER PRO
UFI: R6RV-70PR-T002-9SHX

1.2. Relevant identified uses of the substance or mixture and uses RECOMMENDED

Intended use Special detergent for cement and ceramic residues and salts

1.3. Details of the supplier of the safety data sheet
Name NANOPHOS SA
Complete address Technological & Cultural Park
District and Country 19 500 Lavrio (Greece)
greece
Phone +30 22920 69312
Fax +30 22920 69303

email address of the competent person responsible for the Safety Data Sheet iarabatz@NanoPhos.com
Supplier: Ioannis Arabatzis

1.4. Emergency telephone number
For urgent questions please consult +30 210 7793777

Bucharest Emergency Clinical Hospital: Calea Floreasca no. 8, sector 1, Bucharest
Permanently callable phone number: 021 5992300, ext. 291 e-mail: spital@urgentafloreasca.ro
Targu Mures County Emergency Clinical Hospital: Str. Prof. Dr. G. Marinescu no. 50, Tg. Mures, Mures County. Permanently callable phone number: 212111, 211292, 217235 e-mail: secretariat@spitjudms.ro

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

The product is classified as hazardous in accordance with the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and supplements). Therefore, the product requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878.
Any additional information on health and/or environmental risks is presented in sections 11 and 12 of this sheet.

Hazard classification and indication:
Eye irritation, category 2 H319 Causes serious eye irritation.

2.2. Label elements

Hazard labeling in accordance with Regulation EC 1272/2008 (CLP) and amendments and supplements

Hazard pictograms:

Signal words: Warning

Hazard phrases:

H319	**Causes serious eye irritation.**

eyes.. Precautionary statement

P264	**Wash thoroughly with plenty of soap and water after handling.**
P501	**Dispose of contents or container in accordance with local/ national/international regulations.**
P102	**Keep out of reach of children.**
P101	**If medical advice is needed, have the product container or label at hand.**
P280	**Wear eye protection/face protection.**
P337+P313	**If eye irritation persists: Seek medical advice/attention.**

Product not intended for uses covered by Directive 2004/42/EC.

2.3. Other hazards

Based on available data, the product does not contain any PBT or vPvB in percentages greater than 0.1%.
The product does not contain substances with endocrine disrupting properties in a concentration greater than 0.1%.

SECTION 3. Composition/information on ingredients.

3.2. Mixtures

Contain:

Identification	**x = Conc. % Classification (EC) 1272/2008 (CLP)**
CITRIC ACID monohydrate	
INDEX -	**10 x < 30** **Eye irritant, category 2 (H319)**
EC 201-069-1	

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

SECTION 4. First aid measures

4.1. Description of first aid measures

If in doubt or if symptoms occur, contact a doctor and show them this document. In case of more severe symptoms, seek medical help immediately.
EYES: If you wear contact lenses, remove them if the situation allows it easily.
Rinse immediately with plenty of water for at least 15 minutes, keeping the eyelids fully open.
Consult a doctor or seek medical attention.
SKIN: Remove contaminated clothing immediately. Wash immediately and thoroughly with running water (and soap, if possible). Consult a physician. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless specifically directed to do so by a physician.
Do not give anything by mouth to an unconscious person. Consult a physician or seek medical attention.
INHALATION: Remove victim to fresh air, away from the scene of the accident. Consult a physician or seek medical attention.
Rescuer protection:
It is good practice for rescuers assisting a person exposed to a chemical substance or mixture to wear personal protective equipment. The nature of the protection depends on the hazard level of the substance or mixture, the type of exposure and the degree of contamination. In the absence of more specific indications, the use of disposable gloves is recommended in case of possible contact with body fluids. For the type of PPE (personal protective equipment) appropriate to the characteristics of the substance or mixture, see Section 8.

4.2. Most important symptoms and effects, both acute and delayed

Specific information about symptoms and effects caused by the product is unknown.
DELAYED EFFECTS: According to currently available information, there are no known cases of delayed effects following exposure to this product.

4.3. Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Consult a doctor/seek medical attention.

Means that must be available at the workplace for specific and immediate treatment:

Running water for washing skin and eyes.

SECTION 5. Firefighting measures

5.1. Fire extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing equipment should be of conventional type: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT

None specifically.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not inhale combustion products.

5.3. Recommendations for firefighters

general information
Use water jets to cool containers, preventing product decomposition and the formation of substances potentially hazardous to health.

Always wear full fire protection equipment. Collect fire extinguishing water to prevent it from entering the sewage system. Dispose of contaminated fire extinguishing water and fire debris in accordance with applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS Standard
firefighting equipment, i.e. firefighter's suit (BS EN 469), gloves (BS EN 659) and boots (HO specifications A29 and A30), in combination with 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

Stop leak if safe to do so.
Wear appropriate protective equipment (including personal protective equipment as specified in Section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. This applies to both processing personnel and those involved in emergency procedures.

6.2. Environmental precautions

The product must not enter the sewage system and must not come into contact with surface water or groundwater.

6.3. Methods and materials for containment and cleaning up

Collect spilled product in a suitable container.
Assess the compatibility of the container to be used by checking section 10. Absorb the residue with an inert absorbent material.
Ensure that the spill area is well ventilated. Contaminated material should be disposed of in accordance with the provisions set out in section 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all other sections of this safety data sheet.
Avoid release to the environment. Do not eat, drink or smoke during use. Remove all contaminated clothing and personal protective equipment before entering food handling areas.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container.
Keep containers tightly closed 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 uses

Information unavailable

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Information unavailable

8.2. Exposure control

As the use of appropriate technical equipment must always take priority over personal protective equipment, ensure that the workplace is well ventilated by effective local exhaust ventilation.
When choosing personal protective equipment, seek advice from the chemical supplier. Personal protective equipment should be CE marked, indicating that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
HAND PROTECTION
Protect your hands with category III work gloves.
The following aspects must be considered when choosing the material for work gloves (see standard EN 374): compatibility, degradation, permeation time.

The resistance of work gloves to chemical agents should be checked before use, as it can be unpredictable. The wearing time of the gloves depends on the duration and type of use.
SKIN PROTECTION
Wear professional category I long-sleeved overalls and safety shoes (see Regulation 2016/425 and standard EN ISO 20344).
Wash your body with soap and water after removing protective clothing.
EYE PROTECTION
Wear tight-fitting safety goggles (see standard EN ISO 16321).
RESPIRATORY PROTECTION
Respiratory protection devices must be used if the technical measures adopted are not adequate to restrict the worker's exposure to the limit values considered. Use a mask with a type B filter, the class of which (1, 2 or 3) must be chosen according to the usable concentration limit (see standard EN 14387).

If the substance in question is odourless or its odour threshold is higher than the corresponding TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (according to EN 137) or an external air breathing apparatus (according to EN 138). For the correct choice of respiratory protective device, refer to EN 529.
ENVIRONMENTAL EXPOSURE CONTROL
Emissions generated by manufacturing processes, including those generated by ventilation equipment, must be verified to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

property appearance	Liquid value	Information
Color	transparent	
Smell	Information unavailable	
Melting point/freezing point	Information unavailable	
Initial boiling point	Information unavailable	
FLASH	Information unavailable	
Lower explosion limit	Information unavailable	
Upper explosion limit	Information unavailable	
Flash point	> 60 °C	
Autoignition temperature	Information unavailable	
Decomposition temperature	Information unavailable	
pH	2.3	
Kinematic viscosity	Information unavailable	

Solubility	**Information unavailable**	
Partition coefficient: n-octanol/water	**Information unavailable**	
Vapor pressure	**Information unavailable**	**g/cm3**
Density and/or relative density	**1.07 ÿ 0.05**	
Density and/or relative density	**Information unavailable**	
Particle characteristics	**Information unavailable**	

9.2. Other information

9.2.1. Information on physical hazard classes

Information unavailable

9.2.2. Other safety features

Information unavailable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are expected under normal conditions of use and storage.

10.4. Conditions to avoid

Nothing in particular. However, the usual precautions for chemical products should be observed.

10.5. Incompatible materials

Information unavailable

10.6. Hazardous decomposition products

Information unavailable

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are assessed based on the properties of the substances it contains, using the criteria specified in the applicable regulations for classification.
It is therefore necessary to consider the concentration of the individual hazardous substances indicated in section 3, in order to assess 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 unavailable

Information on possible routes of exposure

Information unavailable

Immediate and delayed effects, as well as chronic effects following short and long-term exposure

Information unavailable

Interactional effects

Information unavailable

Acute toxicity

ATE (Inhalation) of the mixture:	**Not classified (no significant component)**
ATE (Oral) of the mixture:	**Not classified (no significant component)**
ATE (Dermal) of the mixture:	**Not classified (no significant component)**

Citric acid monohydrate

LD50 (Dermal):	**345 mg/kg Rat**

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this class of

danger.

SERIOUS EYE DAMAGE /

IRRITATION

Causes serious eye irritation.

RESPIRATORY SENSITIZATION OR

SKIN LEVEL

Does not meet the classification criteria for this class of

danger.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this class of

danger.

carcinogen

Does not meet the classification criteria for this class of

danger.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this class of danger.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this class of

danger.

Aspiration hazard

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 included in the main European lists of potential or suspected endocrine disruptors with effects on human health, which are under evaluation.

SECTION 12. Ecological information

Use this product in accordance with best work practices. Avoid pollution. Inform the competent authorities if the product enters water courses or contaminates soil or vegetation.

12.1. Toxicity

Information unavailable

12.2. Persistence and degradability

Information unavailable

12.3. Bioaccumulative potential

Information unavailable

12.4. Mobility in soil

Information unavailable

12.5. Results of PBT and vPvB assessment

Based on the available data, the product does not contain any PBT or vPvB in a proportion greater than 0.1%.

12.6. Endocrine Disrupting Properties

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

12.7. Other adverse effects

Information unavailable

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 assessed according to applicable regulations.
Disposal must be carried out by an authorized waste management company, in accordance with national and local regulations.
CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in accordance with national waste management regulations.

SECTION 14. Transport information

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

14.1. UN number or identification 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 the user

Not applicable

14.7. Bulk maritime transport according to IMO instruments

Irrelevant information

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 on the product or substances contained according to Annex XVII to Regulation (EC) No. 1907/2006

Product Point 3

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

Not applicable

Substances from the Candidate List (Art. 59 REACH)
Based on the available data, the product does not contain any SVHC in a proportion greater than 0.1%.
Substances subject to authorisation (Annex XIV REACH)
None
Substances subject to export reporting under Regulation (EU) 649/2012 None Substances subject to the Rotterdam Convention
None
Substances subject to the Stockholm Convention None
Health checks Workers exposed to this chemical agent do not need to undergo medical examinations, provided that the available risk assessment data demonstrate that the risks to the health and safety of workers are reduced and that Directive 98/24/EC is complied with.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the preparation/substances indicated in section 3.

SECTION 16. Other information

Text of the hazard statements (H) mentioned in sections 2-3 of the sheet:

Eye Irrit. 2 – H319 –	Eye irritation, category 2 Causes serious eye irritation.

LEGEND:

- ADR: European Agreement concerning the Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service Number
- EC50: Effective concentration (necessary to induce a 50% effect)
- CE: Identifier in ESIS (European Archive of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Service Program
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: 50% Immobilization Concentration
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Expected Media Concentration of the Environment
- PEL: Expected Exposure Level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international carriage of dangerous goods by rail
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded at any time during occupational exposure
- TWA: Time Weighted Average Exposure Limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile Organic Compounds
- vPvB: Very persistent and very bioaccumulative -

vPvM: Very persistent and very mobile

- 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) 2020/878 (Annex II of the REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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 (EU) 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)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148 18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
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The Merck Index. - 10th edition
Handling Chemical Safety INRS
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Patty - Industrial Hygiene and Toxicology NI
Sax - Hazardous Properties of Industrial Materials - 7th Edition, 1989 IFA GESTIS website ECHA website

Database of SDS templates for chemical products - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note to users: The information contained in this sheet is based on our knowledge at the date of the last version. Users must verify the suitability and completeness of the information provided for each specific use of the product.
This document should not be considered as a guarantee of any specific properties of the product.
The use of this product is not under our direct control; users must therefore, under their own responsibility, comply with current health and safety laws and regulations. The manufacturer is released from any liability arising from improper use.
Provide designated personnel with adequate training on how to use chemicals.
CALCULATION METHODS FOR CLASSIFICATION Chemical and physical hazards: The classification of the product is derived from the criteria set out in the CLP Regulation, Annex I, Part 2. Data for the evaluation of chemical-physical properties are reported in section 9.
Health hazards: The classification of the product is based on the calculation methods according to Annex I to CLP, Part 3, unless otherwise stated in Section 11.
Environmental hazards: The classification of the product is based on the calculation methods according to Annex I to CLP, Part 4, unless otherwise stated in Section 12.
Changes from the previous revision:
The following sections have been modified: 01 / 03 / 04 / 09 / 11.