Safety data sheet

According to Annex II of REACH - Regulation (EU) 2020/878 and Annex II of REACH in the United Kingdom

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

1.1. Product identifier

Code:	NANOPHOS_AC_1906-24_001
Product name	NANOMAX CUTTING STONE
Chemical name and synonym	

1.2. Relevant identified uses of the substance or mixture and uses advised against Use

provided Acrylic emulsion paint for stabilizing stone/rocks.

1.3. Details of the supplier of the safety data sheet Name

	NANOPHOS SA
Full address	Technological and Cultural Park 19,500
District and country	Lavrio (Greece) Greece
	Phone +30 22920 69312
	Fax +30 22920 69303
email address of the competent person responsible for the Safety Data Sheet Supplier:	iarabatz@NanoPhos.com Ioannis Arabatzis

1.4. Emergency telephone number For urgent questions, please refer to

+30 210 7793777

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to the provisions of Regulation EC 1272/2008 (CLP).
However, as the product contains hazardous substances in concentrations as declared in section 3, a safety data sheet with adequate information, in accordance with Regulation (EU) 2020/878, is required.

Classification and indication of hazards: --

2.2. Labeling elements

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

Hazard pictograms: --

Signal words: --

Hazard phrases:

EUH210 The safety data sheet is available upon request.

EUH208 Contains: REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)
It may cause an allergic reaction.

Cautionary statements: --

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentrations greater than 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contain:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOLE-3-ONE (3:1) INDEX 613-167-00-5	0 < x < 0.0015	Acute toxicity 2 H310, Acute toxicity 2 H330, Acute toxicity 3 H301, Skin corrosion 1C H314, Eye damage 1 H318, Skin sensitization 1A H317, Acute aquatic toxicity 1 H400 M=100, Chronic aquatic toxicity 1 H410 M=100, EUH071, Classification note according to Annex VI to the CLP Regulation: B
WHAT -		Skin corrosion 1C H314: 0.6%, Skin irritation 2 H315: 0.06% - < 0.6%, Skin sensitization 1A H317: 0.0015%, Eye damage 1 H318: 0.6%, Skin irritation 2 H319: 0.06% - < 0.6%
CAS 55965-84-9		ATE Oral: 100 mg/kg, LD50 Dermal: 87.12 mg/kg, LC50 Inhalation mist/dust: 0.171 mg/l/4h

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

SECTION 4. First aid measures

4.1. Description of first aid measures

No effects are expected that require the implementation of special first aid measures. The following information represents practical indications of correct behavior in case of contact with a product chemical, even if it is not dangerous. In case of doubt or if symptoms occur, contact a doctor and show him this document. In case of more severe symptoms, seek medical attention immediately.

EYES: Remove contact lenses, if present and easy to do. Rinse immediately with plenty of water for at least 15 minutes, holding the eyelids wide open. Seek medical advice/attention.

SKIN: Remove contaminated clothing. Wash immediately and thoroughly with running water (and soap, if possible). Seek medical advice. Avoid further contact with contaminated clothing.

IF SWALLOWED: Do not induce vomiting unless specifically directed to do so by a physician. Do not give anything by mouth to an unconscious person. Seek medical advice/attention.

INHALATION: Remove victim to fresh air, away from the scene of the accident. Seek medical advice/attention.

Rescuer protection

It is good practice for rescuers assisting a person who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of this 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 advice, the use of disposable gloves is recommended in cases where there is a potential for contact with body fluids. For the type of PPE 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: Based on 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 symptoms occur, whether acute or delayed, consult a doctor.

Means to have 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 must be of conventional type: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture in question

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not inhale combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use water jets to cool containers to prevent product decomposition and the development of substances potentially hazardous to health. Always wear full fire-fighting equipment. Collect extinguishing water to prevent it from flowing into the sewage system. Dispose of contaminated extinguishing water and fire debris in accordance with applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Normal firefighting clothing, i.e. firefighting suit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with a self-contained open-circuit compressed air breathing apparatus with positive pressure (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the drain if there is no danger.
Wear appropriate protective equipment (including personal protective equipment as specified in section 8 of the safety data sheet) to prevent any 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 or come into contact with surface 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 remainder with inert absorbent material.

Ensure that the spill area is well ventilated. Contaminated material should be disposed of in accordance with the provisions of section 13.

6.4. References to other sections

Any information on personal protection and waste 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 contaminated clothing and personal protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information unavailable

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Information unavailable

8.2. Exposure controls

Since 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.

HAND PROTECTION

Protect your hands with category III work gloves.
The following aspects must be taken into account 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 this can be unpredictable. The wearing time of the gloves depends on the duration and type of use.

SKIN PROTECTION

Wear professional long-sleeved overalls and category I safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash the body with soap and water after removing the 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 threshold values considered. A type B filter mask must be used, the class of which (1, 2 or 3) must be chosen according to the concentration limit of use (see standard EN 14387).

If the substance under consideration is odorless or its odor threshold is higher than the corresponding TLV-TWA and in case of emergency, wear a self-contained breathing apparatus with a compressed air circuit open-face respirator (in accordance with EN 137) or a self-contained breathing apparatus (in accordance with 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, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

property	Value	Information
appearance	Not available	
whiteColor		
Smell	not available	
Melting point/freezing point	not available	
Initial boiling point	not available	
FLASH	not available	
Lower explosion limit	not available	
Upper explosion limit	not available	
Flash point	> 60 °C	
Autoignition temperature	not available	
pH decomposition temperature	not available	
	not available	
Kinematic viscosity	not available	
Dynamic viscosity	4500	
Solubility	unavailable	Concentration: 35%
Partition coefficient: n-octanol/water	unavailable	
Vapor pressure	not available	
Density and/or relative density	0.05 g/cm³	
Relative vapor density	not available	
Particle characteristics	does not apply	

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

None in particular. However, the usual precautions used 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 regulation for classification.
It is therefore necessary to take into account 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 likely routes of exposure

Information unavailable

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

Information unavailable

Interactive effects

Information unavailable

ACUTE TOXICITY

Inhalation (ATE) of the mixture:	Not classified (no significant components)
ATE (Oral) of the mixture:	Not classified (no significant components)
ATE (dermal) of the mixture:	Not classified (no significant components)

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

LD50 (dermal):	87.12 mg/kg Rabbit 457
LD50 (Oral):	mg/kg Rat 0.171
LC50 (Mist/dust by inhalation):	mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE INJURIES / IRRITATIONS

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITIZATION May cause a allergic reaction.

Contain:

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - repeated exposure

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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 effects on human health, which are under evaluation.

SECTION 12. Ecological information

Use this product in accordance with good working practices. Avoid dumping. Inform the competent authorities if the product enters waterways or contaminates soil or vegetation.

12.1. Toxicity

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

LC50 - for fish	0.19 mg/l/96h Oncorhynchus mykiss
EC50 - for crustaceans	0.16 mg/l/48h Daphnia magna
EC50 - for algae / aquatic plants	0.0052 mg/l/72h Skeletonema costatum
Chronic NOEC for fish	0.02 mg/l Danio rerio
Chronic NOEC for crustaceans	0.1 mg/l Daphnia magna
Chronic NOEC for algae/aquatic plants	0.00049 mg/l Skeletonema costatum

12.2. Persistence and degradability

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

Solubility in water	> 10000 mg/l
Does NOT degrade quickly	

12.3. Bioaccumulative potential

REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)

Partition coefficient: n-octanol/water	0.75
BCF	< 54

12.4. Mobility in soil

Information unavailable

12.5. Results of PBT and vPvB assessments

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

12.6. Endocrine Disrupting Properties

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

12.7. Other adverse effects

Information unavailable

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

Disposal must be carried out through an authorized waste management company, in accordance with national and local regulations.
CONTAMINATED PACKAGING Packaging

Contaminated materials 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 International 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

does not apply

14.2. UN proper shipping name

does not apply

14.3. Transport hazard class(es)

does not apply

14.4. Packing group

does not apply

14.5. Environmental hazards

does not apply

14.6. Special precautions for the user

does not apply

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 concerned

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or the substances contained in accordance with Annex XVII to Regulation (EC) No 1907/2006

The substance contained

Point	**75**	
Point	**72-77**	**Formaldehyde**

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

does not apply

Substances on the Candidate List (Article 59 of REACH)

Based on available data, the product does not contain SVHC substances in a percentage 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

Medical checks

Information unavailable

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:

Acute toxicity 2	Acute toxicity, category 2
Acute toxicity 3	Acute toxicity, category 3
Skin correction 1C	Skin corrosion, category 1C
Skin correction 1	Skin corrosion, category 1
Eye injuries 1	Serious eye injuries, category 1
Eye irritation 2	Eye irritation, category 2
Skin irritation 2	Skin irritation, category 2
Skin sensor 1A	Skin sensitization, category 1A
Acute aquatic toxicity 1	Hazardous to the aquatic environment, acute toxicity, category 1
Chronic aquatic toxicity 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-term effects.
EUH071	Corrosive to the respiratory tract.
EUH210	The safety data sheet is available upon request.

LEGEND:

- ADR: European Agreement concerning the Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service identification number
- EC50: Effective concentration (necessary to induce a 50% effect)
- CE: Identifier in ESIS (European Repository of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Service
- 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 to CLP
- LC50: Lethal concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations concerning the international carriage of dangerous goods by rail
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any period of 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. Regulations

(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 to 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 (CLP Article X)
14. Regulation (EU) 2018/669 (XI Part II of CLP)
15. Regulation (EU) 2019/521 (XII Part II of CLP)
16. Delegated Regulation (EU) 2018/1480 (Part XIII of CLP)
17. Regulation (EU) 2019/1148 18.
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19. Delegated Regulation (EU) 2020/1182 (XV. Part II of CLP)
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24. Delegated Regulation (EU) 2023/1435 (XX Atp. CLP)
- Merck Index. - 10th Edition - Handling
chemical safety - INRS - Fiche
Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology - NI Sax -
Hazardous Properties of Industrial Materials - 7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of Safety Data Sheet (SDS) templates for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for

Users: The information contained in this sheet is based on our knowledge at the date of the last version. Users must verify the adequacy and completeness of the information provided for each specific use of the product.
This document should not be considered a guarantee for any specific property of the product.
The use of this product is not under our direct control; therefore, users must, at their own risk, comply with current health and safety laws and regulations.
The manufacturer is exempt 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 products is derived from the criteria set out in the CLP Regulation, Annex I, Part 2. Data for the assessment of chemical-physical properties are presented 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 specified 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 specified in section 12.

Changes from the previous revision: The following sections have been modified: 03/04/15/16.