#### Revision nr. 2 NANOPHOS S.A. Dated 22/06/2022 Printed on 23/06/2022 **DeSalin BBQ** Page n. 1/15 Replaced revision:1 (Dated: 20/06/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation 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

NanoPhos\_20062022-001 Code: Product name DeSalin BBQ UFI: MRPV-M0Y0-K00N-1YMU

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

Intended use Not available

1.3. Details of the supplier of the safety data sheet

NANOPHOS S.A. Name

Full address **Technological & Cultural Park** District and Country 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 (0030) 2107793777

# **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 2020/878. 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:

H314 Skin corrosion, category 1A Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

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Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

**P260** Do not breathe fume, mist or spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

P310 Immediately call a POISON CENTER or a doctor.

P264 Wash with plenty of water and soap thoroughly after handling.

P321 Specific treatment (see . . . on this label).

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Dispose of contents or container according to local/national/international regulations

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

Contains: POTASSIUM HYDROXIDE

SODIUM METASILICATE

#### 2.3. Other hazards

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

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

# **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

3-Methoxy-3-methylbutan-1-ol

CAS 56539-66-3 5 < x < 10 Eye Irrit. 2 H319

EC 260-252-4 INDEX -

REACH Reg. 01-2119976333-33-

0000

**SODIUM METASILICATE** 

CAS 10213-79-3 1 < x < 3 Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335

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#### **POTASSIUM HYDROXIDE**

CAS 1310-58-3 0,5 < x < 2 Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-181-3 Skin Corr. 1B H314:

2%, Skin Irrit. 2 H315: 0,5%, Eye Dam. 1 H318: 2%, Eye Irrit. 2 H319: 0,5%

INDEX 019-002-00-8 LD50 Oral: 333

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

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

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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

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. 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 ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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

Regulatory References:

GBR

FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS GRC Ελλάδα Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών

2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή

μεταλλαξιγόνους παράγοντες κατά την εργασία``»

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

TLV-ACGIH ACGIH 2021

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POTASSIUM HYDRO							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA			2			
TLV	GRC	2		2			
WEL	GBR			2			
TLV-ACGIH				2 (C)			

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 III 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 a hood visor or protective visor combined with airtight 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 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 Value Information

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Appearance liquid Colour vellowish Odour Not available Melting point / freezing point Not available Initial boiling point Not available Flammability Not available Not available Lower explosive limit Upper explosive limit Not available > 60 °C Flash point Auto-ignition temperature Not available рΗ 13-14

Kinematic viscosity

Solubility

Not available
Partition coefficient: n-octanol/water

Vapour pressure

Not available
Not available
Density and/or relative density

Not available

Relative vapour density

Not available

Not available

Not applicable

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

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.

#### SODIUM METASILICATE

The aqueous solutions act as: strong bases. Corrodes: aluminium, zinc, tin, aluminium alloys, zinc alloys, tin alloys.

#### POTASSIUM HYDROXIDE

May develop: heat.May corrode: metals.

#### 10.2. Chemical stability

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

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#### POTASSIUM HYDROXIDE

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.

SODIUM METASILICATE

Reacts violently with: acids.

POTASSIUM HYDROXIDE

Develops hydrogen on contact with: metals. Develops heat on contact with: strong acids. Reacts violently with: water.

#### 10.4. Conditions to avoid

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

#### POTASSIUM HYDROXIDE

Avoid exposure to: sources of heat. Keep away from: oxidising agents, acids, flammable substances, halogens, organic substances. Keep away from: lead, aluminium, copper, tin, sulphur, bronze. Absorbs atmospheric CO2.

Unstable on exposure to air. Freezing.

## 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

POTASSIUM HYDROXIDE

May develop: flammable gases.

# **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

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Information not available	
Information on likely routes of exposure	
Information not available	
Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Information not available	
Interactive effects	
Information not available	
ACUTE TOXICITY	
ATE (Inhalation) of the mixture:  ATE (Oral) of the mixture:  Not classified (no significant component)  Not classified (no significant component)	
ATE (Dermal) of the mixture: Not classified (no significant component)	
POTASSIUM HYDROXIDE	
I STACOGNITI BROADE	
LD50 (Oral): 333 mg/kg Rat	
SKIN CORROSION / IRRITATION	
SKIN CORROSION/ IRRITATION	
Corrosive for the skin	
Classification according to the experimental Ph value	
Classification according to the experimental FIT value	
SERIOUS EYE DAMAGE / IRRITATION	
Causes serious eye damage	
Sauces contain the damage	
RESPIRATORY OR SKIN SENSITISATION	
Does not meet the classification criteria for this hazard class	
Respiratory sensitization	

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Information not available	
Skin sensitization	
Information not available	
in the taxanable	
GERM CELL MUTAGENICITY	
Does not meet the classification criteria for this hazard class	
Does not most the diassination offend for this nazara diass	
CARCINOGENICITY	
Does not meet the classification criteria for this hazard class	
REPRODUCTIVE TOXICITY	
Does not meet the classification criteria for this hazard class	
Adverse effects on sexual function and fertility	
Information not available	
Advance offers and development of the offersion	
Adverse effects on development of the offspring	
Information not available	
Effects on or via lactation	
Lifects of of via factation	
Information not available	
STOT - SINGLE EXPOSURE	
2.3. 552E E/N 000/NE	

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Does not meet the classification criteria for this hazard class	
Target organs	
Information not available	
Route of exposure	
Information not available	
STOT - REPEATED EXPOSURE	
Does not meet the classification criteria for this hazard class	
Target organs	
Information not available	
Route of exposure	
Information not available	
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 human health effects under evaluation.	suspected endocrine disruptors with
SECTION 12. Ecological information	
Use this product according to good working practices. Avoid littering. Inform the competent authorities, shoul contaminate soil or vegetation.	d the product reach waterways or
12.1. Toxicity	

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3-Methoxy-3-methylbutan-1-ol

LC50 - for Fish > 100 mg/l/96h (Oryzias latipes (Japanese medaka))

EC50 - for Crustacea > 1000 mg/l/48h (Daphnia magna (Water flea))

#### 12.2. Persistence and degradability

POTASSIUM HYDROXIDE

Solubility in water > 10000 mg/l

Degradability: information not available

3-Methoxy-3-methylbutan-1-ol NOT rapidly degradable

#### 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. 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**

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#### 14.1. UN number or ID number

ADR / RID, IMDG,

3266

IATA:

#### 14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE)

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE)

IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM METASILICATE)

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

ADR / RID:

Class: 8

Label: 8

IMDG:

Class: 8

Label: 8

IATA:

Class: 8

Label: 8



#### 14.4. Packing group

ADR / RID, IMDG,

IATA:

Ш

# 14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

# 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80

Limited Quantities: 5 Tunnel restriction code: (E)

L

IMDG:

Special provision: -EMS: F-A, S-B

Pass.:

Limited Quantities: 5

Que I

IATA: Cargo:

Maximum

quantity: 60 L

Maximum

instructions: 856 Packaging

Packaging

quantity: 5 L

instructions:

852

Special provision:

A3, A803

#### 14.7. Maritime transport in bulk according to IMO instruments

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#### 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** 

Point 3

Contained substance

Point 75

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

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

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.

## 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**

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

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1A Skin corrosion, category 1A Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required 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 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- Regulation (EU) 2020/878 (II Annex of 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

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