#### 2025-1-2

# SAFETY DATA SHEET ACCORDING TO 2020 NO. 1577 - THE REACH ETC.

(AMENDMENT ETC.) (EU EXIT) REGULATIONS 2020 (UK REACH)



Product name: Rhodos Base

Creation date: 01.09.2024, Revision: 10.12.2024, Version: 2.1

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier Product name Rhodos Base

Product code [R10025, R20005, R30010]

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

Fertiliser.

Uses advised against Do not use for purposes other than those prescribed.

1.3 Details of the supplier of the safety data sheet

Supplier Fertiqi SL Carrer de la Volta dels Garrofers 43 08340 Vilassar de Mar, Spain +34 651 02 84 72 info@fertiqi.com

1.4 Emergency Telephone Number Emergency 111 Supplier +34 651 02 84 72

### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

Classification according to 2020 No. 1567 (GB CLP). Acute Tox. 4; H302 Harmful if swallowed. Eye Dam. 1; H318 Causes serious eye damage.

2.2 Label elements

Labelling according to 2020 No. 1567 (GB CLP)



### Signal word: DANGER

H302 Harmful if swallowed.
H318 Causes serious eye damage.
P102 Keep out of reach of children.
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulation.

Contains:

Nitric acid, ammonium calcium salt

#### 2.3 Other hazards

#### PBT/vPvB

The PBT and vPvB criteria of Annex XIII of the REACH regulation does not apply to inorganic substances.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

Product forms slippery surface when combined with water.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

For mixtures see 3.2.

#### 3.2 Mixtures

| Name                                  | CAS<br>EC<br>Index<br>REACH                      | %      | Classification according<br>to 2020 No. 1567 (GB<br>CLP). | Specific Concentration<br>Limits | Notes for substances |
|---------------------------------------|--|--------|---|----------------------------------|----------------------|
| Nitric acid, ammonium<br>calcium salt | 15245-12-2<br>239-289-5<br>-<br>01-2119493947-16 | 90-100 | Acute Tox. 4; H302<br>Eye Dam. 1; H318                    | /                                | /                    |

### **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing with water before removing or use gloves.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side

position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!

Following ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label. Do not induce vomiting unless directed to do so by medical personnel. In case of doubt or if feeling unwell seek medical help.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation No information.

Following skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

Following eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Harmful to health.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable extinguishing media Flooding quantities of water

Unsuitable extinguishing media

Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

#### 5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

#### Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

For emergency responders Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment No information.

For cleaning up

Prevent release into the sewer, water, basements or confined areas. Remove container from spill area. Avoid dust formation. Do not dry sweep. Vacuum dust using a device with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via an authorized waste disposal company.

Other information No information.

6.4 Reference to other sections

See also sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

Protective measures Measures to prevent fire Ensure adequate ventilation.

Measures to prevent aerosol and dust generation Prevent dust formation.

Measures to protect the environment Avoid release to the environment.

Other measures No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs. keep away from : Combustible materials, reducing materials, organic materials, strong acids, strong bases, halogens, chlorine, chlorinated compounds, hydrogen peroxides, oil and grease.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature No information.

Storage class No information.

Further information on storage conditions No information.

7.3 Specific end use(s)

Recommendations No information.

Industrial sector specific solutions No information.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

Occupational Exposure limit values

No information.

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

#### For product

| Туре     | Exposure route | exp. frequency | Remark | Value           |
|----------|----------------|----------------|--------|-----------------|
| Consumer | oral           | short term     | /      | 10 mg/kg bw/day |

#### For components

| Name                                  | Туре     | Exposure route | exp. frequency                 | Remark | Value           |
|---------------------------------------|----------|----------------|--------------------------------|--------|-----------------|
| Nitric acid, ammonium<br>calcium salt | Consumer | oral           | short term systemic<br>effects | /      | 10 mg/kg bw/day |

### PNEC values

For product

| Exposure route        | Remark | Unit | Value   |
|-----------------------|--------|------|---------|
| water treatment plant | /      | /    | 18 mg/L |

### For components

### No information.

#### 8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe dust.

Structural measures to prevent exposure No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Mask with dust filter (P2) or FFP2 (EN 149:2001+A1:2009). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

### Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

#### No information.

Instruction measures to prevent exposure No information.

Organisational measures to prevent exposure No information.

Technical measures to prevent exposure Do not allow product to reach drains, sewage systems or ground water.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

#### Important health, safety and environmental information

| Physical state   | solid           |
|--|-----------------|
| Shape  | prills          |
| Colour   | white           |
| Odour  | odourless       |
| Odour threshold  | No information. |
| Melting/freezing point or softening point                | No information. |
| Boiling point or initial boiling point and boiling range | No information. |
| Flammability   | Non-flammable.  |
| Lower and upper explosion limit                          | No information. |

| Flash point                                       | No information.                   |
|---|-----------------------------------|
| Auto-ignition temperature                         | No information.                   |
| Decomposition temperature                         | No information.                   |
| рН  | 5 — 7 (1% solution)               |
| Viscosity   | No information.                   |
| Solubility (Water)                                | Soluble                           |
| Partition coefficient n-octanol/water (log value) | No information.                   |
| Vapour pressure                                   | No information.                   |
| Density   | 1.1 g/cm <sup>3</sup> (+/- 0,05 ) |
| Relative vapour/gas density                       | No information.                   |
| Particle characteristics                          | No information.                   |

#### 9.2 Other information

Information with regard to physical hazard classes No information.

Other safety characteristics No information.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions occur under normal conditions of storage and use.

#### 10.4 Conditions to avoid

Avoid contamination by any source including metals, dust and organic materials.

#### 10.5 Incompatible materials

alkalis combustible materials, reducing materials, organic materials, Acids

#### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

### SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For product

| Exposure route | Туре             | Species | Time | Value      | Method   | Remark |
|----------------|------------------|---------|------|------------|----------|--------|
| oral           | LD <sub>50</sub> | rat     | /    | 500 mg/kg  | OECD 423 | /      |
| dermal         | LD <sub>50</sub> | rat     | /    | 2000 mg/kg | OECD 402 | /      |

#### Additional information Harmful if swallowed.

### (b) Skin corrosion/irritation

### For product

| Species | Time | result                      | Method | Remark |
|---------|------|-----------------------------|--------|--------|
| 1       | /    | Non-irritating to the skin. | /      | /      |

### (c) Serious eye damage/irritation

For product

| Species | Time | result                        | Method   | Remark                    |
|---------|------|-------------------------------|----------|---------------------------|
| rabbit  | /    | It causes serious eye damage. | OECD 405 | 24, 48, 72 h; read-across |

#### Additional information

### Causes serious eye damage.

(d) Respiratory or skin sensitisation

### No information.

Additional information

### The product is not classified as sensitising.

### (e) (Germ cell) mutagenicity

- No information.
- (f) Carcinogenicity No information.

### (g) Reproductive toxicity

### No information.

### Summary of evaluation of the CMR properties

### The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

### (h) STOT-single exposure

### No information.

#### Additional information

#### STOT SE (single exposure): Not classified.

#### (i) STOT-repeated exposure

### No information.

#### Additional information

#### STOT RE (repeated exposure): Not classified.

### (j) Aspiration hazard

### No information.

#### Symptoms related to the physical, chemical and toxicological characteristics

### No information.

### Interactive effects No information.

### 11.2 Information on other hazards

Endocrine disrupting properties

#### The product does not contain substances with the potential for endocrine disorders.

Other information

#### No information.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

## Acute (short-term) toxicity

For components

| Name                                     | Туре             | Value       | Exposure time | Species        | Organism      | Method   | Remark            |
|--|------------------|-------------|---------------|----------------|---------------|----------|-------------------|
| Nitric acid,<br>ammonium<br>calcium salt | LC <sub>50</sub> | 447 mg/L    | 48 h          | fish           | /             | /        | /                 |
| Nitric acid,<br>ammonium<br>calcium salt | EC <sub>50</sub> | > 100 mg/L  | 48 h          | crustacea      | Daphnia magna | OECD 202 | /                 |
| Nitric acid,<br>ammonium<br>calcium salt | EC <sub>50</sub> | > 100 mg/L  | 72 h          | fish           | /             | OECD 202 | /                 |
| Nitric acid,<br>ammonium<br>calcium salt | NOEC             | 100 mg/L    | 72 h          | fish           | /             | OECD 202 | /                 |
| Nitric acid,<br>ammonium<br>calcium salt | EC <sub>50</sub> | > 1000 mg/L | 3 h           | microorganisms | /             | OECD 209 | NaNO <sub>3</sub> |
| Nitric acid,<br>ammonium<br>calcium salt | NOEC             | 180 mg/L    | 3 h           | microorganisms | /             | OECD 209 | NaNO <sub>3</sub> |

### Chronic (long-term) toxicity

No information.

#### 12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

For components

| Name                                     | Environment | Type / Method | Half Time | Evaluation         | Method | Remark |
|--|-------------|---------------|-----------|--------------------|--------|--------|
| Nitric acid,<br>ammonium calcium<br>salt | /           | /             | /         | does not hydrolyze | /      | /      |

### Biodegradation

No information.

#### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value) No information. Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension No information.

Adsorption/Desorption No information.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Product is not classified as dangerous for environment.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

Waste codes / waste designations according to LoW No information.

Waste treatment-relevant information No information.

Sewage disposal-relevant information No information.

Other disposal recommendations No information.

### **SECTION 14: TRANSPORT INFORMATION**

| ADR/RID   | IMDG  | ΙΑΤΑ  | ADN   |
|---|---|---|---|
| 14.1 UN number or ID number                       |   |   |   |
| Not dangerous according to transport regulations. |
| 14.2 UN proper shipping name                      |   |   |   |
| Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          |
| 14.3 Transport hazard class(es)                   |   |   |   |
| Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          |
| 14.4 Packing group                                |   |   |   |
| Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          |

| 14.5 Environmental hazards                                   |  |    |  |
|--|--|----|--|
| NO   | NO   | NO | NO   |
| 14.6 Special precautions for user                            |  |    |  |
| Limited quantities<br>Not given/not applicable               | Limited quantities<br>Not given/not applicable |    | Limited quantities<br>Not given/not applicable |
| 14.7 Maritime transport in bulk according to IMO instruments |  |    |  |
|  | Not given/not applicable                       |    |  |
|  |  |    |  |

#### **SECTION 15: REGULATORY INFORMATION**

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

- The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (UK REACH 2020 No. 1577).
- The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020 (GB CLP - 2020 No. 1567).
- Information according 2012 No. 1715 about limitation of emissions of volatile organic compounds (VOC-guideline) not applicable
- Ingredients according to 2020 No. 1617 (The Detergents (Amendment) (EU Exit) Regulations 2020) No information.

#### Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **SECTION 16: OTHER INFORMATION**

Indication of changes No information. Key literature references and sources for data No information. Abbreviations and acronyms ATE - Acute Toxicity Estimate ADR - Agreement concerning the International Carriage of Dangerous Goods by Road ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways CEN - European Committee for Standardisation C&L - Classification and Labelling CAS# - Chemical Abstracts Service number CMR - Carcinogen, Mutagen, or Reproductive Toxicant CSA - Chemical Safety Assessment CSR - Chemical Safety Report DMEL - Derived Minimal Effect Level DNEL - Derived No Effect Level DPD - Dangerous Preparations Directive 1999/45/EC DSD - Dangerous Substances Directive 67/548/EEC DU - Downstream User EC - European Community ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS) EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway) EEC - European Economic Community EINECS - European Inventory of Existing Commercial Substances ELINCS - European List of notified Chemical Substances EN - European Standard EQS - Environmental Quality Standard EU - European Union Euphrac - European Phrase Catalogue EWC - European Waste Catalogue (replaced by LoW – see below) GB CLP - Classification Labelling Packaging Regulation; The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020 - 2020 No. 1567 GES - Generic Exposure Scenario GHS - Globally Harmonized System IATA - International Air Transport Association ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG - International Maritime Dangerous Goods IMSBC - International Maritime Solid Bulk Cargoes IT - Information Technology IUCLID - International Uniform Chemical Information Database IUPAC - International Union for Pure Applied Chemistry JRC - Joint Research Centre Kow - octanol-water partition coefficient LC<sub>50</sub> - Lethal Concentration to 50 % of a test population LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose) LE - Legal Entity Low - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm) LR - Lead Registrant M/I - Manufacturer / Importer MS - Member States MSDS - Material Safety Data Sheet OC - Operational Conditions OECD - Organization for Economic Co-operation and Development **OEL - Occupational Exposure Limit** OJ - Official Journal **OR** - Only Representative OSHA - European Agency for Safety and Health at work PBT - Persistent, Bioaccumulative and Toxic substance PEC - Predicted Effect Concentration PNEC(s) - Predicted No Effect Concentration(s) PPE - Personal Protection Equipment (Q)SAR - Qualitative Structure Activity Relationship RID - Regulations concerning the International Carriage of Dangerous Goods by Rail **RIP - REACH Implementation Project** RMM - Risk Management Measure SCBA - Self-Contained Breathing Apparatus SDS - Safety data sheet SIEF - Substance Information Exchange Forum SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity (STOT) RE - Repeated Exposure (STOT) SE - Single Exposure SVHC - Substances of Very High Concern UK REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals - The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 - 2020 No. 1577 **UN - United Nations** vPvB - Very Persistent and Very Bioaccumulative List of relevant H phrases H302 Harmful if swallowed. H318 Causes serious eye damage.