

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



RHIZOMAGIC® SL

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|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 02.06.2025 | 50003073 | Date of first issue: 02.06.2025 |

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

1.1 Product identifier

Product name RHIZOMAGIC® SL

Other means of identification

Product code 50003073

Unique Formula Identifier (UFI) : T501-207M-2001-6QGH

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

Use of the Substance/Mixture : Crop nutrition

Recommended restrictions on use : Use as recommended by the label.
For professional users only.

1.3 Details of the supplier of the safety data sheet

Supplier Address FMC Chemicals Hellas MEPE
Syngrou Avenue 348
17674 Kallithea
Greece

Telephone: +30 211 1982768
Telefax: +30 211 1138614
E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Greece: 30-2111768478 (CHEMTREC)

Medical emergency:
Greece: 30 210 77 93 777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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| Corrosive to metals, Category 1 | H290: May be corrosive to metals. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements : **Prevention:**

| | |
|------|--|
| P234 | Keep only in original packaging. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/ eye protection/ face protection. |

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Follow the recommended instructions for use of the fertilizer to avoid risks to human health and the environment.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|----------------------------|---|---|--------------------------|
| phosphoric acid | 7664-38-2 231-633-2 015-011-00-6 | Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 2; H411 specific concentration limit Skin Corr. 1B; H314 ≥ 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 % Acute toxicity esti- mate Acute oral toxicity: 500 mg/kg | ≥ 5 - < 10 |
| boric acid | 10043-35-3 233-139-2 005-007-00-2 | Repr. 1B; H360FD | ≥ 0,1 - < 0,3 |
| Zinc sulphate, monohydrate | 7446-19-7 | Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute | ≥ 0,1 - < 0,25 |

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| | | aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10 | |
| | | Acute toxicity estimate | |
| | | Acute oral toxicity: 1.710 mg/kg | |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0,0025 - < 0,025 |
| | | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | |
| | | specific concentration limit Skin Sens. 1A; H317 >= 0,036 % | |
| | | Acute toxicity estimate | |
| | | Acute oral toxicity: 450 mg/kg Acute inhalation toxicity (dust/mist): 0,21 mg/l | |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Protection of first-aiders : First Aid responders should pay attention to self-protection

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and use the recommended protective clothing
Avoid inhalation, ingestion and contact with skin and eyes.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

- | | |
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| If inhaled | : Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact | : Wash off with soap and water. If symptoms persist, call a physician. Wash contaminated clothing before re-use. |
| In case of eye contact | : Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. |
| If swallowed | : Gently wipe or rinse the inside of the mouth with water. Do not induce vomiting without medical advice. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|----------------------------------|
| Risks | : Causes serious eye irritation. |
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4.3 Indication of any immediate medical attention and special treatment needed

- | | |
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| Treatment | : Treat symptomatically. |
|-----------|--------------------------|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
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| Suitable extinguishing media | : Dry chemical, CO ₂ , water spray or regular foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : Do not spread spilled material with high-pressure water streams. High volume water jet |

5.2 Special hazards arising from the substance or mixture

- | | |
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| Hazardous combustion products | : Fire may produce irritating, corrosive and/or toxic gases. Sulphur oxides |
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Metal oxides
metal fumes
Oxides of phosphorus

5.3 Advice for firefighters

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| Special protective equipment for firefighters | : | Firefighters should wear protective clothing and self-contained breathing apparatus. |
| Specific extinguishing methods | : | Remove undamaged containers from fire area if it is safe to do so. Use a water spray to cool fully closed containers. |
| Further information | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- | | | |
|----------------------|---|---|
| Personal precautions | : | Use personal protective equipment. Ensure adequate ventilation. If it can be safely done, stop the leak. Do not touch or walk through the spilled material. Never return spills in original containers for re-use. Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene. For disposal considerations see section 13. |
|----------------------|---|---|

6.2 Environmental precautions

- | | | |
|---------------------------|---|---|
| Environmental precautions | : | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |
|---------------------------|---|---|

6.3 Methods and material for containment and cleaning up

- | | | |
|-------------------------|---|--|
| Methods for cleaning up | : | Never return spills in original containers for re-use. Collect as much of the spill as possible with a suitable absorbent material. Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal. |
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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours or spray mist.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Avoid contact with skin, eyes and clothing. Do not inhale aerosol. When using do not eat or drink. When using do not smoke. Wash hands and face before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Crop nutrition

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-----------------|---------------------------------|-------------------------------|---------------------|------------|
| phosphoric acid | 7664-38-2 | TWA | 1 mg/m ³ | 2000/39/EC |
| | Further information: Indicative | | | |
| | | STEL | 2 mg/m ³ | 2000/39/EC |
| | Further information: Indicative | | | |
| | | TWA | 1 mg/m ³ | GR OEL |

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| | | STEL | 3 mg/m ³ | GR OEL |
|--|--|------|---------------------|--------|

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------------------|-----------|-----------------|----------------------------|------------------------|
| boric acid | Workers | Inhalation | Long-term systemic effects | 8,3 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 392 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 4,15 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 196 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 0,98 mg/kg bw/day |
| | Consumers | Oral | Acute local effects | 0,98 mg/kg bw/day |
| 1,2-benzisothiazol-3(2H)-one | Workers | Inhalation | Long-term systemic effects | 6,81 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 0,966 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 1,2 mg/m ³ |
| | Consumers | Dermal | Long-term systemic effects | 0,345 mg/kg |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|------------------------------|-------------------------------|-----------------------------|
| boric acid | Fresh water | 2,9 mg/l |
| | Marine water | 2,9 mg/l |
| | Sewage treatment plant | 10 mg/l |
| | Soil | 5,7 mg/kg dry weight (d.w.) |
| | Intermittent use (freshwater) | 13,7 mg/l |
| Zinc sulphate, monohydrate | Sewage treatment plant | 5,2 mg/l |
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 0,00403 mg/l |
| | Marine water | 0,000403 mg/l |
| | Sewage treatment plant | 1,03 mg/l |
| | Fresh water sediment | 0,0499 mg/l |
| | Marine sediment | 0,00499 mg/l |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

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with the producers of the protective gloves.

- | | | |
|--------------------------|---|---|
| Skin and body protection | : | Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Respiratory protection | : | No personal respiratory protective equipment normally required. In the case of dust or aerosol formation use respirator with an approved filter. |
| Protective measures | : | Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Ensure that eye flushing systems and safety showers are located close to the working place. Wear suitable protective equipment. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|--|---|-----------------------------------|
| Physical state | : | liquid |
| Colour | : | dark brown |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| Melting point/ range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | 3,0 - 5,0 Concentration: 100 % |
| Viscosity | : | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Solubility(ies) | : | |
| Water solubility | : | soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Relative density | : | 1,21 - 1,25 |
| Density | : | No data available |
| Bulk density | : | No data available |
| Relative vapour density | : | No data available |
| Particle characteristics | : | |
| Particle size | : | No data available |

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| | | |
|----------------------------|---|-------------------|
| Particle Size Distribution | : | No data available |
| Shape | : | No data available |

9.2 Other information

| | | |
|----------------------|---|-------------------|
| Explosives | : | Not explosive |
| Oxidizing properties | : | Non-oxidizing |
| Self-ignition | : | No data available |
| Evaporation rate | : | No data available |
| Molecular weight | : | Not applicable |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

| | | |
|---------------------|---|---|
| Hazardous reactions | : | No decomposition if stored and applied as directed. |
|---------------------|---|---|

10.4 Conditions to avoid

| | | |
|---------------------|---|---|
| Conditions to avoid | : | Avoid extreme temperatures Avoid formation of aerosol. |
|---------------------|---|---|

10.5 Incompatible materials

| | | |
|--------------------|---|--|
| Materials to avoid | : | Avoid strong acids, bases, and oxidizers |
|--------------------|---|--|

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

| | | |
|---------------------------|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method |

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Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg
Method: Calculation method
Assessment: The substance or mixture has no acute dermal toxicity

Components:

phosphoric acid:

Acute oral toxicity : LD50 (Rat, female): > 300 - < 2.000 mg/kg
Method: OECD Test Guideline 423

boric acid:

Acute oral toxicity : LD50 (Rat, male): > 2.600 mg/kg
Method: OECD Test Guideline 401
Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 2,03 mg/l
Exposure time: 5 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg
Remarks: no mortality

Zinc sulphate, monohydrate:

Acute oral toxicity : LD50 (Rat, male): 1.710 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Symptoms: irritating
Remarks: no mortality

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : Acute toxicity estimate: 450 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,21 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

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Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Remarks : No data available

Components:

phosphoric acid:

| | | |
|------------|---|---|
| Species | : | Rabbit |
| Assessment | : | Corrosive |
| Result | : | Corrosive after 3 minutes to 1 hour of exposure |

boric acid:

| | | |
|---------|---|--------------------|
| Species | : | Rabbit |
| Result | : | No skin irritation |

Zinc sulphate, monohydrate:

| | | |
|---------|---|--------------------------------------|
| Species | : | Mouse |
| Result | : | slight irritation |
| Remarks | : | Based on data from similar materials |

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Result | : | slight irritation |
| Remarks | : | Based on data from similar materials |

| | | |
|---------|---|--------------------------------------|
| Species | : | Guinea pig |
| Result | : | slight irritation |
| Remarks | : | Based on data from similar materials |

1,2-benzisothiazol-3(2H)-one:

| | | |
|---------------|---|-------------------------|
| Species | : | Rabbit |
| Exposure time | : | 72 h |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

| | | |
|------------|---|---------------------|
| Assessment | : | Irritating to eyes. |
| Result | : | Eye irritation |
| Remarks | : | Eye irritation |

Components:

phosphoric acid:

| | | |
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| Result | : | Irreversible effects on the eye |
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Remarks : Based on skin corrosivity

boric acid:

Species : Rabbit
Result : slight irritation

Zinc sulphate, monohydrate:

Result : Irreversible effects on the eye

1,2-benzisothiazol-3(2H)-one:

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : No eye irritation

Species : Rabbit
Method : EPA OPP 81-4
Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Result : No data available
Remarks : Not expected to cause skin sensitisation

Components:

boric acid:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

Zinc sulphate, monohydrate:

Exposure routes : Skin contact
Species : Mouse
Result : Not a skin sensitizer.

1,2-benzisothiazol-3(2H)-one:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.

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| | | |
|---------|---|--|
| Species | : | Guinea pig |
| Method | : | FIFRA 81.06 |
| Result | : | May cause sensitisation by skin contact. |

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

phosphoric acid:

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative |
| | | Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative |

boric acid:

| | | |
|------------------------------------|---|---|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay Result: negative |
| | | Test Type: sister chromatid exchange assay Result: negative |
| | | Test Type: gene mutation test Result: negative |
| Genotoxicity in vivo | : | Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Oral Result: negative |
| Germ cell mutagenicity- Assessment | : | Weight of evidence does not support classification as a germ cell mutagen. |

Zinc sulphate, monohydrate:

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: gene mutation test Result: negative |
| Genotoxicity in vivo | : | Test Type: Chromosome aberration test in vitro Result: negative |

1,2-benzisothiazol-3(2H)-one:

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative |
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Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: Liver cells
Application Route: Ingestion
Exposure time: 4 h
Method: OECD Test Guideline 486
Result: negative

Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

boric acid:

Species : Mouse, male and female
Application Route : Oral
Exposure time : 103 weeks
Dose : 0, 446, 1150mg/kg/bw/day
Result : > 1.150 mg/kg bw/day
negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

Zinc sulphate, monohydrate:

Remarks : No human information is available.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

phosphoric acid:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female

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Application Route: Ingestion
General Toxicity - Parent: NOAEL: 500 mg/kg body weight
General Toxicity F1: NOAEL: 500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Ingestion
General Toxicity Maternal: NOAEL: 370 mg/kg body weight
Developmental Toxicity: NOAEL: 370 mg/kg body weight
Result: negative
Remarks: Based on data from similar materials

boric acid:

Effects on fertility : Test Type: Three-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 5.9, 17.5, 58.5(mgb)/kg/bw/d
General Toxicity - Parent: LOAEL: 58,5 mg/kg bw/day
General Toxicity F1: LOAEL: 58,5 mg/kg bw/day
General Toxicity F2: LOAEL: 58,5 mg/kg bw/day
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 3.3, 6.3, 9.6, 13.3, 25mgb/kg
General Toxicity Maternal: LOAEL: 13,3 mg/kg bw/day
Embryo-foetal toxicity: NOAEL: >= 12,9 mg/kg bw/day
Method: OECD Test Guideline 414
Result: negative

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

Zinc sulphate, monohydrate:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male
Application Route: Ingestion
General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight
General Toxicity F1: NOAEL: 48 mg/kg body weight
Fertility: NOAEL: 112 mg/kg bw/day
Symptoms: No effects on reproduction parameters
Method: OPPTS 870.3800
Result: negative

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Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

STOT - single exposure

Based on available data, the classification criteria are not met.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Components:

boric acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Zinc sulphate, monohydrate:

Remarks : No data available

1,2-benzisothiazol-3(2H)-one:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

phosphoric acid:

Species : Rat, male and female
NOAEL : 250 mg/kg
Application Route : Oral - gavage
Exposure time : 42 - 54 d
Method : OECD Test Guideline 422

boric acid:

Species : Rat, male and female
LOAEL : 58.5 mg/kg bw/day
Application Route : Oral - feed
Exposure time : 2 years
Dose : 0, 5.9, 17.5, 58.5mg/kg/bw/d

Species : Rat, female
NOAEC : 0,47 mg/l
Application Route : inhalation (dust/mist/fume)
Dose : 0.077, 0.175, 0.47 mg/l

1,2-benzisothiazol-3(2H)-one:

Species : Rat, male and female
NOAEL : 15 mg/kg
Application Route : Ingestion

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| | | |
|-------------------|---|---------------------------------|
| Exposure time | : | 28 d |
| Method | : | OECD Test Guideline 407 |
| Symptoms | : | Irritation |
| Species | : | Rat, male and female |
| NOAEL | : | 69 mg/kg |
| Application Route | : | Ingestion |
| Exposure time | : | 90 d |
| Symptoms | : | Irritation, Reduced body weight |

Aspiration toxicity

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

phosphoric acid:

| | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 - 3,25 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |

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Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

boric acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: Based on data from similar materials

LC50 (Limanda limanda): 74 mg/l
Exposure time: 96 h
Test Type: flow-through test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 102 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 40,2 mg/l
Exposure time: 74,5 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 17,5 mg/l
Exposure time: 74,5 h
Method: OECD Test Guideline 201

LOEC : 3,6 mg/l
Exposure time: 10 d
Test Type: semi-static test

Toxicity to microorganisms : EC50 (activated sludge): > 175 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

NOEC (activated sludge): 17,5 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 6,4 mg/l
Exposure time: 34 d
Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6,4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test

Toxicity to soil dwelling or- : LC50: > 175 mg/kg

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ganisms

Exposure time: 14 d
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 207

NOEC: ≥ 175 mg/kg
Exposure time: 14 d
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 207

Zinc sulphate, monohydrate:

Toxicity to fish : LC50 (Fish): 0,112 mg/l
Exposure time: 96 h

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 0,169 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,131 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (microalgae)): 0,0052 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : EC10:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0056 mg/l
Exposure time: 10 d

M-Factor (Chronic aquatic toxicity) : 10

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (*Cyprinodon variegatus* (sheepshead minnow)): 16,7 mg/l
Exposure time: 96 h
Test Type: static test

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2,15 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2,9 mg/l
Exposure time: 48 h
Test Type: static test

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Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,070 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 24 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

EC50 (activated sludge): 12,8 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

Components:

phosphoric acid:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Zinc sulphate, monohydrate:

Biodegradability : Remarks: No data available

1,2-benzisothiazol-3(2H)-one:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

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Components:

boric acid:

Bioaccumulation : Species: Fish
Exposure time: 60 d
Bioconcentration factor (BCF): < 0,1

Partition coefficient: n-octanol/water : log Pow: -1,09 (22 °C)

Zinc sulphate, monohydrate:

Bioaccumulation : Remarks: Not inherently biodegradable.

Partition coefficient: n-octanol/water : Remarks: Not applicable

1,2-benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 56 d
Bioconcentration factor (BCF): 6,62
Method: OECD Test Guideline 305
Remarks: Substance is not persistent, bioaccumulative, and toxic (PBT).

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)
pH: 7

log Pow: 0,99 (20 °C)
pH: 5

12.4 Mobility in soil

Components:

1,2-benzisothiazol-3(2H)-one:

Distribution among environmental compartments : Koc: 9,33 ml/g, log Koc: 0,97
Method: OECD Test Guideline 121
Remarks: Highly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

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Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Components:

phosphoric acid:

Additional ecological information : Harmful effects on aquatic organisms also due to pH shift.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Dispose of the packaging in accordance with the local regulations in force.

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|------|-----------|
| ADN | : UN 1805 |
| ADR | : UN 1805 |
| RID | : UN 1805 |
| IMDG | : UN 1805 |
| IATA | : UN 1805 |

14.2 UN proper shipping name

| | |
|-----|----------------------------|
| ADN | : PHOSPHORIC ACID SOLUTION |
|-----|----------------------------|

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| | | |
|-------------|---|---------------------------|
| ADR | : | PHOSPHORIC ACID SOLUTION |
| RID | : | PHOSPHORIC ACID SOLUTION |
| IMDG | : | PHOSPHORIC ACID SOLUTION |
| IATA | : | Phosphoric acid, solution |

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADN | : | 8 |
| ADR | : | 8 |
| RID | : | 8 |
| IMDG | : | 8 |
| IATA | : | 8 |

14.4 Packing group

| | |
|--|-------------|
| ADN | |
| Packing group | : III |
| Classification Code | : C1 |
| Hazard Identification Number | : 80 |
| Labels | : 8 |
| ADR | |
| Packing group | : III |
| Classification Code | : C1 |
| Hazard Identification Number | : 80 |
| Labels | : 8 |
| Tunnel restriction code | : (E) |
| RID | |
| Packing group | : III |
| Classification Code | : C1 |
| Hazard Identification Number | : 80 |
| Labels | : 8 |
| IMDG | |
| Packing group | : III |
| Labels | : 8 |
| EmS Code | : F-A, S-B |
| IATA (Cargo) | |
| Packing instruction (cargo aircraft) | : 856 |
| Packing instruction (LQ) | : Y841 |
| Packing group | : III |
| Labels | : Corrosive |
| IATA (Passenger) | |
| Packing instruction (passenger aircraft) | : 852 |
| Packing instruction (LQ) | : Y841 |
| Packing group | : III |

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Labels : Corrosive

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : boric acid

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

The components of this product are reported in the following inventories:

| | |
|-------|--|
| TCSI | : On the inventory, or in compliance with the inventory |
| TSCA | : Product contains substance(s) not listed on TSCA inventory. |
| AIIC | : On the inventory, or in compliance with the inventory |
| DSL | : This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product. |
| ENCS | : Not in compliance with the inventory |
| ISHL | : Not in compliance with the inventory |
| KECI | : Not in compliance with the inventory |
| PICCS | : Not in compliance with the inventory |
| IECSC | : Not in compliance with the inventory |
| NZIoC | : Not in compliance with the inventory |
| TECI | : Not in compliance with the inventory |

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

| | |
|--------|--|
| H290 | : May be corrosive to metals. |
| H302 | : Harmful if swallowed. |
| H314 | : Causes severe skin burns and eye damage. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage. |
| H330 | : Fatal if inhaled. |
| H360FD | : May damage fertility. May damage the unborn child. |
| H400 | : Very toxic to aquatic life. |

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H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

| | |
|-------------------|--|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Short-term (acute) aquatic hazard |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam. | : Serious eye damage |
| Met. Corr. | : Corrosive to metals |
| Repr. | : Reproductive toxicity |
| Skin Corr. | : Skin corrosion |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| 2000/39/EC | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| GR OEL | : Greece. Exposure limit values |
| 2000/39/EC / TWA | : Limit Value - eight hours |
| 2000/39/EC / STEL | : Short term exposure limit |
| GR OEL / TWA | : Long term exposure limit |
| GR OEL / STEL | : Short term exposure limit |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

Classification of the mixture:

| | |
|-------------------|------|
| Met. Corr. 1 | H290 |
| Eye Irrit. 2 | H319 |
| Aquatic Chronic 2 | H411 |

Classification procedure:

| |
|-------------------------------------|
| Calculation method |
| Based on product data or assessment |
| Calculation method |

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