

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



FOLIAR EXTRA NRG

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 25.05.2021 |
| 1.5 | 19.02.2024 | 50001204 | Date of first issue: 19.07.2018 |

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

1.1 Product identifier

Product name FOLIAR EXTRA NRG

Other means of identification

Product code 50001204

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

Use of the Sub-
stance/Mixture : A fertilizer with micronutrients for use in agriculture

Recommended restrictions
on use : Use as recommended by the label.

1.3 Details of the supplier of the safety data sheet

1.3 Details of the supplier of the safety data sheet

Supplier Address FMC Agro Limited
Rectors Lane, Pentre
Flintshire
CH5 2DH
United Kingdom

Telephone: + 44 1244 537370
E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
England and Wales: 44-870-8200418 (CHEMTREC)

Medical emergency:
England and Wales: 111
Scotland: 84 54 24 2424

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK
SI 2019/720, and UK SI 2020/1567)

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Eye irritation, Category 2

H319: Causes serious eye irritation.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear 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.

Disposal:

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Additional Labelling

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

EUH401

To avoid risks to human health and the environment, comply with the instructions for use.

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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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 | Skin Corr. 1B; H314 specific concentra- tion limit Skin Corr. 1B; H314 ≥ 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 % | ≥ 3 - < 5 |
| trisodium nitrilotriacetate | 5064-31-3 225-768-6 607-620-00-6 | Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351 specific concentra- tion limit Carc. 2; H351 ≥ 5 % | ≥ 1 - < 5 |
| Citric acid, monohydrate | 5949-29-1 | Eye Irrit. 2; H319 | ≥ 1 - < 10 |
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 613-088-00-6 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 10 specific concentra- tion limit Skin Sens. 1; H317 ≥ 0.05 % | ≥ 0.0025 - < 0.025 |

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|----------------------------|--|
| General advice | : Move out of dangerous area. 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 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. |
| If inhaled | : Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. |
| In case of skin contact | : Take off all contaminated clothing immediately. Wash contaminated clothing before re-use. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. |
| In case of eye contact | : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. Do NOT induce vomiting. 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. |
|-------|----------------------------------|

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|------------------------------|--|
| Suitable extinguishing media | : Dry chemical, CO ₂ , water spray or regular foam. |
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Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Ammonia
Fire may produce irritating, corrosive and/or toxic gases.

5.3 Advice for firefighters

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

Further information : 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.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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/dust.
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.
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Keep away from combustible material.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

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.
- Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : Fertilizers

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 | GB EH40 |
| | | STEL | 2 mg/m ³ | GB EH40 |
| | | TWA | 1 mg/m ³ | 2000/39/EC |
| Further information: Indicative | | | | |
| | | STEL | 2 mg/m ³ | 2000/39/EC |
| Further information: Indicative | | | | |
| manganese dini- | 10377-66-9 | TWA (Inhalable) | 0.2 mg/m ³ | GB EH40 |

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| trate | | | (Manganese) | |
| | | TWA (Respirable fraction) | 0.05 mg/m3 (Manganese) | GB EH40 |
| | | TWA (inhalable fraction) | 0.2 mg/m3 (Manganese) | 2017/164/EU |
| Further information: Indicative | | | | |
| | | TWA (Respirable fraction) | 0.05 mg/m3 (Manganese) | 2017/164/EU |
| Further information: Indicative | | | | |
| copper dinitrate | 3251-23-8 | TWA (Dusts and mists) | 1 mg/m3 (Copper) | GB EH40 |
| | | STEL (Dusts and mists) | 2 mg/m3 (Copper) | GB EH40 |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------------------------|-----------|-----------------|----------------------------|------------------|
| potassium dihydrogenorthophosphate | Workers | Inhalation | Long-term systemic effects | 14.82 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 6.35 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 70 mg/kg |
| trisodium nitrilotriacetate | Workers | Inhalation | Long-term systemic effects | 3.2 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 0.8 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 0.3 mg/kg bw/day |
| 1,2-benzisothiazol-3(2H)-one | Workers | Inhalation | Long-term systemic effects | 6.81 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 0.966 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 1.2 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0.345 mg/kg |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|------------------------------|---------------------------|---------------|
| trisodium nitrilotriacetate | Fresh water | 0.93 mg/l |
| | Marine water | 0.093 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 |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing

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problems.

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 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.

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.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|-------------------------------------|
| Physical state | : liquid |
| Colour | : brown |
| Odour | : Faint odour |
| Odour Threshold | : No data available |
| pH | : 5.1 - 5.4 Concentration: 100 % |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : No data available |

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| | | |
|--|---|-------------------|
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | 1.19 - 1.21 |
| Density | : | No data available |
| Bulk density | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | No data available |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Oxidizing properties | : | Non-oxidizing |

9.2 Other information

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

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

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

10.4 Conditions to avoid

Conditions to avoid : Avoid extreme temperatures
Heat, flames and sparks.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Toxic fumes

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

phosphoric acid:

Acute oral toxicity : LD50 (Rat, female): > 300 - < 2,000 mg/kg
Method: OECD Test Guideline 423

trisodium nitrilotriacetate:

Acute oral toxicity : LD50 (Rat, female): 1,470 mg/kg

Acute inhalation toxicity : LC0 (Rat, male): 2.307 mg/l
Exposure time: 4 d
Test atmosphere: dust/mist
Remarks: no mortality

Acute dermal toxicity : LD0 (Rabbit, male and female): 2,000 mg/kg
Remarks: no mortality

Citric acid, monohydrate:

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Acute oral toxicity : LD50 Oral (Mouse, male and female): 5,400 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

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

Acute oral toxicity : LD50 (Rat, male and female): 490 mg/kg
Method: OECD Test Guideline 401

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

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

trisodium nitrilotriacetate:

Species : Rabbit
Method : Draize Test
Result : No skin irritation

Citric acid, monohydrate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

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.

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Product:

Assessment : Irritating to eyes.
Result : Eye irritation

Components:

phosphoric acid:

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

trisodium nitrilotriacetate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Citric acid, monohydrate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

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:

Remarks : No data available

Components:

trisodium nitrilotriacetate:

Test Type : Buehler Test
Species : Guinea pig

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Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

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.

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

trisodium nitrilotriacetate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Test Type: Cytogenetic assay
Species: Mouse (male)
Application Route: Oral
Result: negative

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

Citric acid, monohydrate:

Genotoxicity in vitro : Test Type: Micronucleus test

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Method: OECD Test Guideline 487
Result: positive

Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Rat (male)
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative

Test Type: Rodent Dominant Lethal Assay
Species: Rat (male and female)
Application Route: Oral
Method: Regulation (EC) No. 440/2008, Annex, B.22
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

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

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

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assessment cell mutagen.

Carcinogenicity

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

Components:

trisodium nitrilotriacetate:

| | |
|-------------------|-------------------------|
| Species | : Rat, male and female |
| Application Route | : Oral |
| Exposure time | : 104 weeks |
| Dose | : 0, 9, 92, 921 mg/kg/d |
| | : 9 mg/kg bw/day |
| LOAEL | : 92 mg/kg bw/day |
| Result | : positive |

| | |
|------------------------------|---|
| Carcinogenicity - Assessment | : Limited evidence of carcinogenicity in animal studies |
|------------------------------|---|

Citric acid, monohydrate:

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

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 |
| | 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 |

| | |
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| 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 |

trisodium nitrilotriacetate:

| | |
|----------------------|---|
| Effects on fertility | : Test Type: Two-generation study |
| | Species: Rat, male and female |
| | Application Route: Oral |
| | Dose: 90 and 450 mg/kg bw/day |
| | General Toxicity - Parent: LOAEL: 450 mg/kg body weight |

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Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 90 and 450 mg/kg bw/day
General Toxicity Maternal: LOAEL: 450 mg/kg bw/day
Developmental Toxicity: NOAEL: 450 mg/kg bw/day
Result: negative

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

Citric acid, monohydrate:

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Mouse
Application Route: Oral
Dose: 0, 2.41, 11.2, 52.0, 241 mg/k
Duration of Single Treatment: 6 - 15 d
Teratogenicity: NOAEL: > 241 mg/kg body weight

Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Dose: 0, 2.95, 13.7, 63.6, 295 mg/k
Duration of Single Treatment: 6 - 15 d
Teratogenicity: NOAEL: > 295 mg/kg body weight

Test Type: reproductive and developmental toxicity study
Species: Rabbit
Application Route: Oral
Dose: 0, 4.25, 19.75, 91.70, 425 mg
Duration of Single Treatment: 6 - 15 d
Teratogenicity: NOAEL: > 425 mg/kg body weight

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

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

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

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STOT - single exposure

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

Components:

trisodium nitrilotriacetate:

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

STOT - repeated exposure

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

Components:

Citric acid, monohydrate:

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

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

trisodium nitrilotriacetate:

Species : Rat, male
NOAEL : 9 mg/kg bw/day
Application Route : Oral - feed
Exposure time : 28 d
Dose : 0, 9 mg/kg ppm

Species : Rat, male and female
LOAEC : 0.342 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 28 d
Dose : 0.0102, 0.2131, 0.3422 mg/l

Species : Rabbit
NOAEL : 50 mg/kg bw/day
Application Route : Dermal
Exposure time : 28 or 91 d

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Dose : 0, 50 mg/kg

Citric acid, monohydrate:

Species : Rat
NOAEL : 4,000 mg/kg
LOAEL : 8,000 mg/kg
Application Route : Oral
Exposure time : 10d
Dose : 2, 4, 8, 16 g/kg bw/day

Species : Mouse
NOAEL : 1,000 mg/kg
LOAEL : 2,000 mg/kg
Application Route : Oral
Exposure time : 10d
Dose : 1, 2, 4, 8 g/kg bw/day

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

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

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

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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

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

trisodium nitrilotriacetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 114 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Gammarus fasciatus (freshwater shrimp)): 98 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 91.5 mg/l
Exposure time: 72 h
Method: EU Method C3

NOEC (Desmodesmus subspicatus (green algae)): 1.43 mg/l
Exposure time: 72 h
Method: EU Method C3

Toxicity to microorganisms : (Protozoa): > 400 mg/l
Exposure time: 48 h
Test Type: Growth inhibition

Toxicity to fish (Chronic toxicity) : NOEC: 54 mg/l
Exposure time: 229 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9.3 mg/l
Exposure time: 147 d
Species: Gammarus fasciatus (freshwater shrimp)
Test Type: flow-through test

Citric acid, monohydrate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,535 mg/l
Exposure time: 24 h

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Test Type: static test

Toxicity to algae/aquatic plants : NOEC (*Scenedesmus quadricauda* (Green algae)): 425 mg/l
Exposure time: 8 d
Test Type: static test

Toxicity to microorganisms : NOEC (*Pseudomonas putida*): > 10,000 mg/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test

NOEC (Protozoa): 325 mg/l
Exposure time: 72 h

Toxicity to terrestrial organisms : NOEC: > 4 mg/kg
Exposure time: 14 d
Species: Birds

LD50: > 4 mg/kg
Exposure time: 14 d
Species: Birds

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
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) : 10

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

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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

12.2 Persistence and degradability

Components:

phosphoric acid:

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

trisodium nitrilotriacetate:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 14 d
Method: OECD Test Guideline 301E

Citric acid, monohydrate:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B

Result: Readily biodegradable.
Method: OECD Test Guideline 301E

Result: Inherently biodegradable.
Method: OECD Test Guideline 302B

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

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

12.3 Bioaccumulative potential

Components:

trisodium nitrilotriacetate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -13.2 (25 °C)
Method: QSAR

Citric acid, monohydrate:

Bioaccumulation : Bioconcentration factor (BCF): 3.2
Method: QSAR

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Partition coefficient: n-octanol/water : log Pow: -1.55

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: This substance is not considered to be persistent, bioaccumulating 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 Other adverse effects

Product:

Endocrine disrupting potential : 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.

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:

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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. Do not burn, or use a cutting torch on, the empty drum. |

SECTION 14: Transport information

14.1 UN 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 |
| 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 | |

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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 |
| Labels | : Corrosive |

14.5 Environmental hazards

ADN

| | |
|---------------------------|------|
| Environmentally hazardous | : no |
|---------------------------|------|

ADR

| | |
|---------------------------|------|
| Environmentally hazardous | : no |
|---------------------------|------|

RID

| | |
|---------------------------|------|
| Environmentally hazardous | : no |
|---------------------------|------|

IMDG

| | |
|------------------|------|
| Marine pollutant | : no |
|------------------|------|

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

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| | | |
|--|---|---|
| UK REACH List of restrictions (Annex 17) | : | Conditions of restriction for the following entries should be considered: Number on list 3 boric acid (Number on list 30) Alcohols, C11-14-iso-, C13-rich, ethoxylated (Number on list 3) |
|--|---|---|

| | | |
|---|---|----------------|
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable |
|---|---|----------------|

| | | |
|---|---|----------------|
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
|---|---|----------------|

| | | |
|---|---|----------------|
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
|---|---|----------------|

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

| | | |
|--|----|------------------------------|
| Control of Major Accident Hazards Regulations 2015 (COMAH) | P8 | OXIDIZING LIQUIDS AND SOLIDS |
|--|----|------------------------------|

P8

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

| | | |
|------|---|---|
| TCSI | : | Not in compliance with the inventory |
| TSCA | : | Product contains substance(s) not listed on TSCA inventory. |
| AIIC | : | Not in compliance with the inventory |
| DSL | : | This product contains the following components that are not on the Canadian DSL nor NDSL. |

emulsion of silicone

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| | | |
|-------|---|--------------------------------------|
| 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

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

| | | |
|------|---|--|
| 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. |
| H319 | : | Causes serious eye irritation. |
| H351 | : | Suspected of causing cancer. |
| H400 | : | Very toxic to aquatic life. |
| 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 |
| Carc. | : | Carcinogenicity |
| Eye Dam. | : | Serious eye damage |
| Eye Irrit. | : | Eye irritation |
| Skin Corr. | : | Skin corrosion |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2017/164/EU | : | Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| 2017/164/EU / TWA | : | Limit Value - eight hours |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : | Short-term exposure limit (15-minute reference period) |

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information :

Classification of the mixture:

| | |
|-------------------|------|
| Eye Irrit. 2 | H319 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

Based on product data or assessment
Calculation method

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