

SAFETY DATA SHEET

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



Caltix Plus

Version 1.3	Revision Date: 20.08.2025	SDS Number: 50001875	Date of last issue: 29.01.2020 Date of first issue: 29.01.2020
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Caltix Plus

Other means of identification

Product code 50001875

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.

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)

Acute toxicity, Category 4

H302: Harmful if swallowed.

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Serious eye damage, Category 1

H318: Causes serious eye damage.

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 :

Danger

Hazard statements :

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P264 Wash hands thoroughly after handling.

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

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

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

Hazardous components which must be listed on the label:

nitric acid, ammonium calcium salt

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)
nitric acid, ammonium calcium salt	15245-12-2 239-289-5	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 50 - < 70
magnesium nitrate	10377-60-3 233-826-7	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 1 - < 10
boric acid	10043-35-3 233-139-2 005-007-00-2	Repr. 1B; H360FD	>= 0.1 - < 0.3
zinc oxide	1314-13-2 215-222-5 030-013-00-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	>= 0.025 - < 0.1

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 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.

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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 : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
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 : Harmful if swallowed.
Causes serious eye damage.

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, CO₂, 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

- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Metal oxides
Boron oxides
Carbon oxides

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5.3 Advice for firefighters

- 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.

6.2 Environmental precautions

- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Try to prevent the material from entering drains or water courses.
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.

6.4 Reference to other sections

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

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.

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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 : Keep away from combustible material.

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 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 resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Do not store near acids.

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

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
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Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
nitric acid, ammonium calcium salt	Sewage treatment plant	18 mg/l
magnesium nitrate	Sewage treatment plant	18 mg/l
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

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		weight (d.w.)
	Intermittent use (freshwater)	13.7 mg/l

8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Face-shield
- 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 : 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 : yellow
- Odour : characteristic
- Odour Threshold : No data available
- pH : 1.5 - 3.0
Concentration: 100 %
- Melting point/ range : No data available
- Boiling point/boiling range : No data available
- Flash point : No data available
- Evaporation rate : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available

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flammability limit	
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.48 - 1.51
Density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: soluble
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
Explosive properties	:
No data available	
Oxidizing properties	: Non-oxidizing

9.2 Other information

Molecular weight	: Not applicable
Particle size	: Not applicable
Particle Size Distribution	: Not applicable
Self-ignition	: 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

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

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Product:

- | | | |
|---------------------------|---|--|
| Acute oral toxicity | : | Acute toxicity estimate: 936.84 mg/kg
Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method |

Components:

nitric acid, ammonium calcium salt:

- | | | |
|-----------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat, female): 300 - 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The component/mixture is moderately toxic after single ingestion. |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: no mortality |

magnesium nitrate:

- | | | |
|-----------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat, female): > 2,000 mg/kg
Method: OECD Test Guideline 423 |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402 |

boric acid:

- | | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat, male): > 2,600 mg/kg
Method: OECD Test Guideline 401
Remarks: no mortality |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 2.03 mg/l
Exposure time: 5 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: no mortality |

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Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Remarks: no mortality

zinc oxide:

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

LD50 (Mouse, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 401
Target Organs: Liver, Heart, spleen, Stomach, Pancreas
Symptoms: Damage
Remarks: mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 1.79 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: EPA OPP 81 - 3
Remarks: no mortality

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

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

Product:

Assessment : Not classified as irritant
Result : Mild skin irritant
Remarks : May cause skin irritation and/or dermatitis.

Remarks : Extremely corrosive and destructive to tissue.

Components:

nitric acid, ammonium calcium salt:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from a similar product.

magnesium nitrate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

boric acid:

Species : Rabbit

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Result : No skin irritation

zinc oxide:

Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 431
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Assessment : Risk of serious damage to eyes.
Result : Risk of serious damage to eyes.
Remarks : May cause irreversible eye damage.

Remarks : May cause irreversible eye damage.

Components:

nitric acid, ammonium calcium salt:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

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

magnesium nitrate:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation

boric acid:

Species : Rabbit
Result : slight irritation

zinc oxide:

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

Respiratory or skin sensitisation

Skin sensitisation

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

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Respiratory sensitisation

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

Product:

Remarks : No data available

Components:

nitric acid, ammonium calcium salt:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

magnesium nitrate:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

boric acid:

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

zinc oxide:

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

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Substance is not considered to be potential skin sensitisier.

Germ cell mutagenicity

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

Components:

nitric acid, ammonium calcium salt:

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

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Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

magnesium nitrate:

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
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

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 oxide:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative

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Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: equivocal

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster fibroblasts
Method: OECD Test Guideline 473
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Result: positive

Test Type: Micronucleus test
Test system: Human epithelioid cells
Method: OECD Test Guideline 487
Result: negative

Test Type: Micronucleus test
Test system: Human lymphocytes
Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

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 oxide:

Species : Mouse, male and female
Application Route : Oral
Exposure time : 1 year
Dose : 4400, 22000 mg/l
NOAEL : > 22,000 mg/l

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Result	:	negative
Remarks	:	Based on data from similar materials
Carcinogenicity - Assessment	:	Animal testing did not show any carcinogenic effects.

Reproductive toxicity

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

Components:

nitric acid, ammonium calcium salt:

Effects on fertility	:	Species: Rat, male and female Application Route: Oral Dose: 0, 250, 750, 1,500mg/kg/day General Toxicity - Parent: NOAEL: >= 1,500 mg/kg bw/day Method: OECD Test Guideline 422 Result: negative
Effects on foetal development	:	Test Type: reproductive and developmental toxicity study Species: Rat Application Route: Oral Dose: 0, 250, 750, 1,500mg/kg/day Duration of Single Treatment: 53 d General Toxicity Maternal: NOAEL: >= 1,500 mg/kg bw/day Developmental Toxicity: NOAEL: >= 1,500 mg/kg bw/day Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity

magnesium nitrate:

Effects on fertility	:	Species: Rat, male and female Application Route: Oral Dose: 0, 250, 750, and 1,500 milligram per kilogram Duration of Single Treatment: 28 d General Toxicity - Parent: NOAEL: > 1,500 mg/kg body weight Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Effects on foetal development	:	Species: Rat Application Route: Oral Dose: 0, 250, 750, and 1,500 milligram per kilogram Duration of Single Treatment: 28 d General Toxicity Maternal: NOAEL: > 1,500 mg/kg body weight Developmental Toxicity: NOAEL: > 1,500 mg/kg body weight Method: OECD Test Guideline 422

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Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity - Assessment

: Weight of evidence does not support classification for reproductive toxicity

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 oxide:

Effects on fertility

: Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 7.5, 15, 30mg/kg bw/day
Frequency of Treatment: 7 days/week
General Toxicity - Parent: LOAEL: 7.5 mg/kg body weight
General Toxicity F1: LOAEL: 30 mg/kg body weight
Method: OECD Test Guideline 416
Result: negative
Remarks: Based on data from similar materials

Test Type: one-generation reproductive toxicity

Species: Rat, male

Application Route: Oral

Dose: 4,000 milligram per liter

Frequency of Treatment: 32 daily

General Toxicity - Parent: LOAEL: 4,000 mg/l

General Toxicity F1: LOAEL: 4,000 mg/l

Symptoms: Reduced fertility

Target Organs: male reproductive organs

Result: positive

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Remarks: Based on data from similar materials

Effects on foetal development	: Species: Rat Application Route: inhalation (dust/mist/fume) Dose: .0003, 0.002, 0.008 milligram per liter Duration of Single Treatment: 14 d General Toxicity Maternal: LOAEC: 0.008 mg/L Developmental Toxicity: NOAEC: 0.008 mg/L Embryo-foetal toxicity: NOAEC Mating/Fertility: 0.008 mg/L Method: OECD Test Guideline 414 Result: negative
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STOT - single exposure

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

Components:

nitric acid, ammonium calcium salt:

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

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

Components:

magnesium nitrate:

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

boric acid:

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

Repeated dose toxicity

Components:

nitric acid, ammonium calcium salt:

Species	: Rat, male and female
NOAEL	: >=1000 mg/kg bw/day
Application Route	: Oral
Exposure time	: 28 d
Dose	: 50, 150, 1000 mg/kg bw
Method	: OECD Test Guideline 407

magnesium nitrate:

Species	: Rat, male and female
NOAEL	: > 1,500 mg/kg

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Application Route	:	Oral
Exposure time	:	28d
Dose	:	0, 250, 750, 1,500 mg/kg/day
Method	:	OECD Test Guideline 422
Remarks	:	Based on data from similar materials

boric acid:

Species	:	Rat, male and female
NOAEL	:	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

zinc oxide:

Species	:	Rat, male and female
NOAEL	:	31.52 mg/kg
LOAEL	:	127.52 mg/kg
Application Route	:	Oral
Exposure time	:	13 weeks
Dose	:	0, 31.52, 127.52 mg/kg
Method	:	OECD Test Guideline 408
Target Organs	:	Pancreas
Symptoms	:	Necrosis
Remarks	:	Based on data from similar materials

Species	:	Mouse, male and female
NOEL	:	3000 ppm
Application Route	:	Oral
Exposure time	:	13 weeks
Dose	:	0, 300, 3000, 30000 ppm
Method	:	OECD Test Guideline 408
Remarks	:	Based on data from similar materials

Species	:	Rat, male
LOAEL	:	0.0045 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	3 months
Dose	:	0.0003, 0.0015, 0.004mg/l
Method	:	OECD Test Guideline 413
Target Organs	:	Lungs
Remarks	:	mortality

Species	:	Rat, male and female
LOAEL	:	75 mg/kg bw/day
Application Route	:	Dermal

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Exposure time : 28d
Dose : 0, 75, 180, 360 mg/kg bw/day
Method : OECD Test Guideline 410

Aspiration toxicity

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

Experience with human exposure

Components:

zinc oxide:

Inhalation : Symptoms: Fatigue, Sweating, bitter taste, chills, dry mouth, flu-like symptoms
Ingestion : Symptoms: Gastrointestinal discomfort

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

nitric acid, ammonium calcium salt:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 95 - 102 mg/l
Exposure time: 48 h
Test Type: static test

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 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (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: 180 min
Method: OECD Test Guideline 209

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Toxicity to fish (Chronic toxicity) : NOEC: 157 mg/l
Exposure time: 30 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Remarks: Based on data from similar materials

magnesium nitrate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

LC50 (Poecilia reticulata (guppy)): 1,378 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

LC50 (Cyprinus carpio (Carp)): 95 - 102 mg/l
Exposure time: 48 h
Test Type: semi-static test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (diatoms): > 1,700 mg/l
Exposure time: 10 d
Test Type: static test
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: 58 mg/l
Exposure time: 30 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Remarks: Based on data from similar materials

NOEC: 157 mg/l
Exposure time: 32 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Remarks: Based on data from similar materials

boric acid:

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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 organisms	: LC50: > 175 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207
	NOEC: >= 175 mg/kg

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

zinc oxide:

Toxicity to fish

: LC50 (Danio rerio (zebra fish)): 1.55 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other
aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): 0.76 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

LC50 : 0.37 mg/l
Exposure time: 96 h
Test Type: static test

EC50 : 0.14 mg/l
Exposure time: 24 h
Test Type: static test

EC50 : 0.072 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to algae/aquatic
plants

: IC50 (Pseudokirchneriella subcapitata (algae)): 0.044 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 0.024 mg/l
Exposure time: 3 d
Method: OECD Test Guideline 201

IC50 (Skeletonema costatum (marine diatom)): 1.23 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

IC50 : 3.28 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

NOEC (Dunaliella tertiolecta (marine algae)): 0.01 mg/l
Exposure time: 4 d
Test Type: static test

EC50 (Dunaliella tertiolecta (marine algae)): 0.65 mg/l
Exposure time: 4 d
Test Type: static test

(Chlorella vulgaris (Fresh water algae)): 1.16 mg/l
Exposure time: 72 h

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Method: OECD Test Guideline 201

EC50 (Anabaena flos-aquae (cyanobacterium)): 0.3 mg/l
Exposure time: 96 h
Test Type: static test

EC50 : 0.69 mg/l
Exposure time: 3 d
Test Type: static test

EC50 (Phaeodactylum tricornutum): 1.12 mg/l
Exposure time: 24 h
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

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

EC50 (Tetrahymena pyriformis): 7.1 mg/l
Exposure time: 24 h
Test Type: Growth inhibition

Toxicity to fish (Chronic toxicity) : NOEC: 0.440 mg/l
Exposure time: 72 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Remarks: Based on data from similar materials

NOEC: 0.026 mg/l
Exposure time: 30 d
Species: Jordanella floridae (flagfish)
Method: OECD Test Guideline 210
Remarks: Based on data from similar materials

NOEC: 0.530 mg/l
Exposure time: 1,095 d
Species: Salvelinus fontinalis (Brook trout)
Test Type: flow-through test
Remarks: Based on data from similar materials

NOEC: 0.056 mg/l
Exposure time: 116 d
Species: Salmo trutta (brown trout)
Method: OECD Test Guideline 210
Remarks: Based on data from similar materials

NOEC: 0.025 mg/l
Exposure time: 27 d
Species: Fish

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Test Type: semi-static test

Remarks: Based on data from similar materials

NOEC: 0.078 mg/l

Exposure time: 248 d

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

Remarks: Based on data from similar materials

NOEC: 0.050 mg/l

Exposure time: 155 d

Species: Fish

Test Type: flow-through test

Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC: 0.125 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : NOEC: 750 mg/kg
Exposure time: 21 d
Species: Eisenia fetida (earthworms)

12.2 Persistence and degradability

Components:

zinc oxide:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

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)

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zinc oxide:

- Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 14 d
Bioconcentration factor (BCF): 2,060
Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

No data available

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 : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
- 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.

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.
Waste disposal code: 02 01 08 agrochemical waste containing dangerous substances.

SECTION 14: Transport information

14.1 UN number

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ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.2 UN proper shipping name

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA	:	Not regulated as a dangerous good

14.4 Packing group

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

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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
		propionic acid (Number on list 3) Alcohols, C11-14-iso-, C13-rich, ethoxylated (Number on list 3)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	boric acid
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors	:	nitric acid, ammonium calcium salt
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
	P8	
Control of Major Accident Hazards Regulations 2015 (COMAH)	P8	OXIDIZING LIQUIDS AND SOLIDS

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

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
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

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product.

ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or 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

H272	:	May intensify fire; oxidizer.
H302	:	Harmful if swallowed.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H360FD	:	May damage fertility. May damage the unborn child.
H400	:	Very toxic to aquatic life.
H410	:	Very 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
Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids
Repr.	:	Reproductive toxicity

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

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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

Classification of the mixture:

Acute Tox. 4	H302
Eye Dam. 1	H318
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Based on product data or assessment
Calculation method

Disclaimer

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