

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name ALL IN

Other means of identification

Product code 50001925

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 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)

Eye irritation, Category 2

H319: Causes serious eye irritation.

SAFETY DATA SHEET

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



ALL IN

Version
1.8

Revision Date:
05.05.2025

SDS Number:
50001925

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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 hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ 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 in accordance with local regulation.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
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ALL IN

Version
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Revision Date:
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SDS Number:
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Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
magnesium nitrate	10377-60-3 233-826-7	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 1 - < 10
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 3; H412 specific concentra- tion limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 %	>= 2.5 - < 3
Citric acid, monohydrate	5949-29-1	Eye Irrit. 2; H319	>= 1 - < 10
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

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.

SAFETY DATA SHEET

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



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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 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

- : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off immediately with plenty of water for at least 15 minutes.
Wash contaminated clothing before re-use.
Get medical attention if irritation develops and persists.

In case of eye contact

- : 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 : 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, 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

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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.
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 : Neutralize with chalk, alkali solution or ammonia.
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).

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UK REACH Regulations SI 2019/758



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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.
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 : 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

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

SAFETY DATA SHEET

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



ALL IN

Version
1.8

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05.05.2025

SDS Number:
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	TWA	1 mg/m3	2000/39/EC
Further information: Indicative			
	STEL	2 mg/m3	2000/39/EC
Further information: Indicative			
manganese dinitrate	10377-66-9	TWA (Inhalable) TWA (Respirable fraction)	0.2 mg/m3 (Manganese) 0.05 mg/m3 (Manganese)
		TWA (inhalable fraction)	0.2 mg/m3 (Manganese)
Further information: Indicative			
		TWA (Respirable fraction)	0.05 mg/m3 (Manganese)
Further information: Indicative			
copper dinitrate	3251-23-8	TWA (Dusts and mists)	1 mg/m3 (Copper)
		STEL (Dusts and mists)	2 mg/m3 (Copper)

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

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
urea	Fresh water	0.47 mg/l
	Marine water	0.047 mg/l
magnesium nitrate	Sewage treatment plant	18 mg/l
Citric acid, monohydrate	Fresh water	0.440 mg/l
	Marine water	0.044 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	34.6 mg/kg dry weight (d.w.)
	Marine sediment	34.6 mg/kg dry weight (d.w.)
	Soil	33.1 mg/kg dry weight (d.w.)
trisodium nitrilotriacetate	Fresh water	0.93 mg/l

SAFETY DATA SHEET

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



ALL IN

Version 1.8 Revision Date: 05.05.2025 SDS Number: 50001925 Date of last issue: 04.04.2025
Date of first issue: 20.09.2018

	Marine water	0.093 mg/l
	Sewage treatment plant	270 mg/l
	Intermittent use (freshwater)	0.8 mg/l
	Fresh water sediment	3.64 mg/kg dry weight (d.w.)
	Marine sediment	0.364 mg/kg dry weight (d.w.)
	Soil	0.182 mg/kg dry weight (d.w.)
	Secondary poisoning (predators)	0.200 µg/kg food
manganese dinitrate	Fresh water	0.029 - 0.0358 mg/l
	Intermittent use (freshwater)	0.029 - 0.1041 mg/l
	Marine water	400 - 2900 ng/l
	Sewage treatment plant	0.0114 mg/kg dry weight (d.w.)
	Fresh water sediment	0.00114 mg/kg dry weight (d.w.)
	Soil	25.1 mg/kg dry weight (d.w.)
copper dinitrate	Fresh water	0.0078 mg/l
	Marine water	0.0052 mg/l
	Sewage treatment plant	0.230 mg/l
	Fresh water sediment	87 mg/kg
	Marine sediment	676 mg/kg
	Soil	65 mg/kg

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 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.

SAFETY DATA SHEET

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



ALL IN

Version
1.8

Revision Date:
05.05.2025

SDS Number:
50001925

Date of last issue: 04.04.2025
Date of first issue: 20.09.2018

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
Form	:	liquid
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	1.50 - 2.50 Concentration: 100 %
Melting point/freezing point	:	No data available
Initial boiling point and 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
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1.21 - 1.22
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

Self-ignition	:	No data available
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SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758



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Date of last issue: 04.04.2025
Date of first issue: 20.09.2018

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

irritating gases

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: dust/mist
Method: Calculation method

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

Components:

magnesium nitrate:

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

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

phosphoric acid:

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

Citric acid, monohydrate:

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

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

Skin corrosion/irritation

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

Product:

Remarks : Not expected to be irritating to skin.

Remarks : Extremely corrosive and destructive to tissue.

Components:

magnesium nitrate:

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

phosphoric acid:

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

Citric acid, monohydrate:

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

trisodium nitrilotriacetate:

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Assessment	:	Irritating to eyes.
Remarks	:	May cause irreversible eye damage.
Remarks	:	May cause irreversible eye damage.

Components:

magnesium nitrate:

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

phosphoric acid:

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

Citric acid, monohydrate:

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

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

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 : Not expected to cause skin sensitisation

Components:

magnesium nitrate:

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

trisodium nitrilotriacetate:

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

Germ cell mutagenicity

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

Components:

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

phosphoric acid:

Genotoxicity in vitro : Test Type: reverse mutation assay

SAFETY DATA SHEET

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



ALL IN

Version
1.8

Revision Date:
05.05.2025

SDS Number:
50001925

Date of last issue: 04.04.2025
Date of first issue: 20.09.2018

Method: OECD Test Guideline 471
Result: negative

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

Citric acid, monohydrate:

- Genotoxicity in vitro : Test Type: Micronucleus test
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.

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

SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758



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Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

essment cell mutagen.

Carcinogenicity

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

Components:

Citric acid, monohydrate:

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

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

Reproductive toxicity

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

Components:

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
Result: negative
Remarks: Based on data from similar materials

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

SAFETY DATA SHEET

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UK REACH Regulations SI 2019/758



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Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

essment ductive toxicity

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

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

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

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

SAFETY DATA SHEET

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



ALL IN

Version
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Date of first issue: 20.09.2018

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

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:

magnesium nitrate:

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

Citric acid, monohydrate:

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

Repeated dose toxicity

Components:

magnesium nitrate:

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

phosphoric acid:

SAFETY DATA SHEET

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



ALL IN

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2025
1.8	05.05.2025	50001925	Date of first issue: 20.09.2018

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

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

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
Dose	:	0, 50 mg/kg

Aspiration toxicity

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

Further information

Product:

Remarks : No data available

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

SECTION 12: Ecological information

12.1 Toxicity

Components:

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

phosphoric acid:

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 3 - 3.25 mg/l

SAFETY DATA SHEET

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



ALL IN

Version
1.8

Revision Date:
05.05.2025

SDS Number:
50001925

Date of last issue: 04.04.2025
Date of first issue: 20.09.2018

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

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
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

trisodium nitrilotriacetate:

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

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

12.2 Persistence and degradability

Components:

phosphoric acid:

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

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

trisodium nitrilotriacetate:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 14 d

SAFETY DATA SHEET

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



ALL IN

Version
1.8

Revision Date:
05.05.2025

SDS Number:
50001925

Date of last issue: 04.04.2025
Date of first issue: 20.09.2018

Method: OECD Test Guideline 301E

12.3 Bioaccumulative potential

Components:

Citric acid, monohydrate:

- Bioaccumulation : Bioconcentration factor (BCF): 3.2
Method: QSAR
- Partition coefficient: n-octanol/water : log Pow: -1.55

trisodium nitrilotriacetate:

- Bioaccumulation : Remarks: Bioaccumulation is unlikely.
- Partition coefficient: n-octanol/water : log Pow: -13.2 (25 °C)
Method: QSAR

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.

Components:

phosphoric acid:

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

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.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal. |

SECTION 14: Transport information

14.1 UN number

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

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

Not applicable

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
		nitric acid ...% [C ≤ 70 %] (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 (EU) No 2024/590 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)		Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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 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

H272	: May intensify fire; oxidizer.
H290	: May be corrosive to metals.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H351	: Suspected of causing cancer.
H412	: Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Met. Corr.	: Corrosive to metals
Ox. Sol.	: Oxidizing solids
Skin Corr.	: Skin corrosion
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)

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

SAFETY DATA SHEET

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



ALL IN

Version 1.8	Revision Date: 05.05.2025	SDS Number: 50001925	Date of last issue: 04.04.2025 Date of first issue: 20.09.2018
----------------	------------------------------	-------------------------	---

- 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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GB / 6N