

SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Naturamer Zinc

Creation date	23rd April 2025	Version	1
Revision date	23rd April 2025		

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

- 1.1. Product identifier**
 Substance / mixture Naturamer Zinc
 UFI mixture
 EM60-N0YG-K00X-EV6T
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
 A water-soluble zinc (II) nitrate solution suitable for fertilizing plants through leaves and irrigation systems.
Main intended use
 PC-FER-1 Fertilisers
Mixture uses advised against
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
 Name or trade name UAB "BS Chemical"
 Address Briedžio g. 13, Kretinga
 Lithuania
 Phone +37066373748
 E-mail info@bs-chemical.lt
 Web address www.bs-chemical.com
Email address for a competent person responsible for the safety data sheet
 Name Beata Tumaš
 E-mail beata@bs-chemical.lt
- 1.4. Emergency telephone number**
 European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
 The mixture is classified as dangerous.

Acute Tox. 4, H302
 Skin Corr. 1, H314
 Eye Dam. 1, H318
 STOT SE 3, H335
 Aquatic Acute 1, H400
 Aquatic Chronic 2, H411

Most serious adverse effects on human health and the environment

Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word

Danger

Hazardous substances

Zinc (II) nitrate (V)
 nitric acid [C ≤ 70 %]

Hazard statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container to in accordance with national regulations.
Supplemental information	
EUH071	Corrosive to the respiratory tract.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 7779-88-6 EC: 231-943-8	Zinc (II) nitrate (V)	46	Ox. Sol. 2, H272 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	
Index: 007-004-00-1 CAS: 7697-37-2 EC: 231-714-2	nitric acid [C ≤ 70 %]	<1	Ox. Liq. 3, H272 Skin Corr. 1A, H314 Acute Tox. 3, H331 EUH071 Specific concentration limit: Ox. Liq. 3, H272: C ≥ 65 % Skin Corr. 1A, H314: C ≥ 20 % Skin Corr. 1B, H314: 5 % ≤ C < 20 % ATE Inhalation (vapor) = 2,65 mg/l	1, 2, 3

Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- A substance for which exposure limits are set.

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3 Explosive precursor

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Beware of the contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Call medical rescue service.

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

Inhaling vapours can cause corrosion of the breathing system.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable. The liquid has oxidizing properties. In case of fire, oxygen and nitrogen oxides may be released.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep container tightly closed.

Storage temperature +5...+25 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2006/15/EC

Substance name (component)	Type	Value
nitric acid [C ≤ 70 %] (CAS: 7697-37-2)	OEL 15 minutes	2,6 mg/m ³
	OEL 15 minutes	1 ppm

DNEL

nitric acid [C ≤ 70 %]				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	2.6 mg/m ³	Chronic effects local	ECHA
Workers	Inhalation	2.6 mg/m ³	Acute effects local	ECHA
Consumers	Inhalation	1.3 mg/m ³	Chronic effects local	ECHA
Consumers	Inhalation	1.3 mg/m ³	Acute effects local	ECHA

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Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1 mg/m ³	Chronic effects systemic	ECHA
Consumers	Inhalation	1.25 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	8.3 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Dermal	8.3 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Oral	0.83 mg/kg bw/day	Chronic effects systemic	ECHA

PNEC

Zinc (II) nitrate (V)		
Route of exposure	Value	Source
Freshwater environment	14.4-41.7 µg/l	ECHA
Marine water	6.1-20.9 µg/l	ECHA
Microorganisms in sewage treatment	100-289.7 µg/l	ECHA
Freshwater sediment	117.8-425.5 mg/kg of dry substance of sediment	ECHA
Sea sediments	60.5-469.8 mg/kg of dry substance of sediment	ECHA
Soil (agricultural)	35.6-240.7 mg/kg of dry substance of soil	ECHA

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

EN166 - Personal Eye Protection Standard. Protective goggles or face shield (based on the nature of the work performed).

Skin protection

EN ISO 374-1. Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

EN 14387. In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
color intensity	transparent
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available

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Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	1-3.5 (100% solution at 20-25 °C)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.47 g/cm ³ at 20-25 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Strong bases, metals, cyanide compounds, flammable and explosive materials, strong reducing agents, metal powders. Tin foil may ignite if in contact with the material.

10.6. Hazardous decomposition products

Not developed under normal uses. At high temperatures and in case of fire, hazardous gases are formed: nitrogen oxides, oxygen.

SECTION 11: Toxicological information

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

-

Acute toxicity

Harmful if swallowed.

Naturamer Zinc							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE	1087 mg/kg				Calculation of value	
Inhalation (vapor)	ATE	265 mg/l				Calculation of value	

nitric acid [C ≤ 70 %]							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LC ₅₀	2.65 mg/kg	48 hours	Rat			ECHA
Inhalation (vapor)	ATE	2.65 mg/l					

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Zinc (II) nitrate (V)

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Inhalation	LC ₅₀	1.975 mg/l of air		Rat			ECHA
Dermal	LD ₅₀	2000 mg/kg bw		Rat			ECHA
Oral	LD ₅₀	300-2280 mg/kg bw		Rat			ECHA

Skin corrosion/irritation

Causes severe skin burns and eye damage.

nitric acid [C ≤ 70 %]

Route of exposure	Result	Exposure time	Species	Source
Dermal	Skin burns			ECHA

Zinc (II) nitrate (V)

Route of exposure	Result	Exposure time	Species	Source
Dermal	Irritating			ECHA

Serious eye damage/irritation

Causes serious eye damage.

nitric acid [C ≤ 70 %]

Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

Zinc (II) nitrate (V)

Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

Respiratory or skin sensitisation

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

nitric acid [C ≤ 70 %]

Route of exposure	Result	Exposure time	Species	Sex	Source
Inhalation	Not sensitizing				SDL
Dermal	Not sensitizing				SDL

Zinc (II) nitrate (V)

Route of exposure	Result	Exposure time	Species	Sex	Source
Inhalation	Not sensitizing				ECHA
Dermal	Not sensitizing				ECHA

Germ cell mutagenicity

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

nitric acid [C ≤ 70 %]

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					SDL

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Zinc (II) nitrate (V)

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					ECHA

Carcinogenicity

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

nitric acid [C ≤ 70 %]

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			ECHA

Zinc (II) nitrate (V)

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

Reproductive toxicity

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

nitric acid [C ≤ 70 %]

Effect	Parameter	Value	Result	Species	Sex	Source
Effects on fertility	NOAEL	1500 mg/kg bw/day	No effect	Rat		ECHA
Developmental toxicity	NOAEL	1500 mg/kg bw/day	No effect	Rat		ECHA

Zinc (II) nitrate (V)

Effect	Parameter	Value	Result	Species	Sex	Source
Developmental toxicity	NOAEC	7.5 mg/m ³	No effect	Rat		ECHA

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

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

nitric acid [C ≤ 70 %]

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	1500 mg/kg bw/day		Rat		ECHA
Inhalation	NOAEC	2.15 ppm		Rat		ECHA

Zinc (II) nitrate (V)

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	31.25-31.52 mg/kg bw/day		Rat		ECHA
Oral	LOAEL	53.8-125 mg/kg bw/day		Rat		ECHA
Oral	NOEL	3000 ppm		Rat		ECHA
Oral	NOEL	3000 ppm		Mouse		ECHA

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Zinc (II) nitrate (V)

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Inhalation	NOAEL	1.5 mg/m ³ of air		Rat		ECHA
Inhalation	NOAEC	0.47-0.5 mg/m ³ of air		Rat		ECHA
Inhalation	LOAEC	4.45 mg/m ³ of air		Rat		ECHA

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

Acute toxicity

nitric acid [C ≤ 70 %]

Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	12 g/l	4 days	Fish		ECHA

Zinc (II) nitrate (V)

Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	102-35980 µg/l	4 days	Fish		ECHA
LC ₅₀	330 µg/l	95 hours	Fish		ECHA
EC ₅₀	105-5200 µg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	220-23700 µg/l	24 hours	Aquatic invertebrates		ECHA
LC ₅₀	41-1220 µg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	42-1036 µg/l	4 days	Algae		ECHA
IC ₅₀	106-2050 µg/l	72 hours	Algae		ECHA
NOEC	1.071 mg/l	16 days	Algae		ECHA
NOEC	100-1110 µg/l	10 days	Algae		ECHA
EC ₅₀	5.2 mg/l	3 hours	Aquatic microorganisms		ECHA
IC ₅₀	350 µg/l	4 hours	Aquatic microorganisms		ECHA
NOEC	100 µg/l	4 hours	Aquatic microorganisms		ECHA
NOEC	100-400 mg/kg of dry substance of soil	5 months	Higher plants		ECHA
NOEC	300 mg/kg of dry substance of soil	67 days	Higher plants		ECHA
NOEC	200 mg/kg of dry substance of soil	56 days	Higher plants		ECHA
NOEC	33-49.9 mg/kg of dry substance of soil	48 days	Higher plants		ECHA

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Zinc (II) nitrate (V)					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	500-508 mg/kg of dry substance of soil	6 months	Microorganisms		ECHA
NOEC	17-200 mg/kg of dry substance of soil	84 days	Microorganisms		ECHA
NOEC	80-121 mg/kg of dry substance of soil	63 days	Microorganisms		ECHA
NOEC	50-198 mg/kg of dry substance of soil	55 days	Microorganisms		ECHA
NOEC	162-313 mg/kg of dry substance of soil	52 days	Microorganisms		ECHA
NOEC	100 mg/kg of food	5.1 months	Birds		ECHA
NOEC	131 mg/kg of food	70 days	Birds		ECHA
NOEC	60-249 mg/kg of food	42 days	Birds		ECHA
NOEC	240 mg/kg of food	35 days	Birds		ECHA
NOEC	150 mg/kg of food	28 days	Birds		ECHA

Chronic toxicity

Zinc (II) nitrate (V)					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	530-534 µg/l	3 years	Fish		ECHA
NOEC	130 µg/l	1.8 years	Fish		ECHA
NOEC	78-575 µg/l	8 months	Fish		ECHA
NOEC	50-130 µg/l	5 months	Fish		ECHA
NOEC	56-250 µg/l	3.9 months	Fish		ECHA
NOEC	33.3-100 µg/l	9 months	Aquatic invertebrates		ECHA
NOEC	100 µg/l	7 months	Aquatic invertebrates		ECHA
NOEC	100 µg/l	6 months	Aquatic invertebrates		ECHA
NOEC	72-75 µg/l	3.7 months	Aquatic invertebrates		ECHA
NOEC	300 µg/l	3 months	Aquatic invertebrates		ECHA

12.2. Persistence and degradability

Not applicable to inorganic materials.

Biodegradability

nitric acid [C ≤ 70 %]					
Parameter	Value	Exposure time	Environment	Result	Source
				Biodegradable	SDL

Zinc (II) nitrate (V)					
Parameter	Value	Exposure time	Environment	Result	Source
				Not biodegradable	SDL

12.3. Bioaccumulative potential

Insignificant.

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nitric acid [C ≤ 70 %]

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	0					SDL

Zinc (II) nitrate (V)

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]	Source
	0					ECHA

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

nitric acid [C ≤ 70 %]

Parameter	Value	Result	Source
		High, Hydrolytically unstable	SDL

Zinc (II) nitrate (V)

Parameter	Value	Result	Source
		High, Hydrolytically unstable	ECHA

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

06 03 99 wastes not otherwise specified

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1514

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14.2. UN proper shipping name

ZINC NITRATE

14.3. Transport hazard class(es)

5.1 Oxidizing substances

14.4. Packing group

II

14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

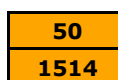
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



02

5.1+hazardous for the environment



Tunnel restriction code

(E)

Air transport - ICAO/IATA

Packaging instructions passenger

558

Cargo packaging instructions

562

Marine transport - IMDG

EmS (emergency plan)

F-H, S-Q

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Product contains regulated explosives precursor: Making available, introduction, possession and use of those precursors by member of the general public according to Regulation (EU) 2019/1148, Article 5 to 9. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information
A list of standard risk phrases used in the safety data sheet

EUH071	Corrosive to the respiratory tract.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

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H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Guidelines for safe handling used in the safety data sheet	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
P501	Dispose of contents/container to in accordance with national regulations.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
Eye Dam.	Serious eye damage
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level

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OEL	Occupational Exposure Limits
Ox. Sol.	Oxidising solid
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.