

SAFETY DATA SHEET

Nordkalk Nordkalk Enrich C 50, Nordkalk
Enrich A 50

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 26.03.2020

Revision date 07.06.2024

1.1. Product identifier

Product name Nordkalk Enrich C 50, Nordkalk Enrich A 50

Product definition Water suspensions of precipitated Calcium Carbonate (PCC)
Also covers the nanoform.

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

Use of the substance / mixture Additive in paper, paints and coatings, plastics, rubber products, elastomers, adhesives, mastics, sealants, plasters, ceramics, building materials

Main intended use PC-TEC-OTH Other products for chemical or technical processes

Industrial use Yes

Professional use Yes

Consumer use No

1.3. Details of the supplier of the safety data sheet

Company name Nordkalk Oy Ab

Postal address Skräbbölevägen 18

Postcode FI-21600

City Pargas

Country Finland

Telephone number +358 20 753 7000

Email sds@nordkalk.com

Website www.nordkalk.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: 112 Description: Emergency telephone number Open 24 hours a day. Telephone number: +358 800 147 111 or +358 9 471 977 Description: Poison Information Centre (in Finland), P.O. Box 790 (Tukholmankatu 17), 00029 HUS Open 24 hours a day.
Identification, comments	Please contact the Emergency Centre in your own country, e.g. 112 in European Union countries.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, notes	In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has not been classified as hazardous.
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2.2. Label elements

Supplemental label information	EUH 208 Contains 1,2-benzisothiazol-3(2H)-one (BIT) and reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
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2.3. Other hazards

PBT / vPvB	For results of PBT and vPvB assessment, see point 12.5.
Health effect	No endocrine disrupting properties known.
Other hazards	Also covers the nanoform. The product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Calcium carbonate (precipitated)	CAS No.: 471-34-1 EC No.: 207-439-9 REACH Reg. No.: 01-2119486795-18-XXXX	CLP classification, notes: Not classified.	35 < 100 %	
1,2-benzisothiazol-3(2H) -one	CAS No.: 2634-33-5 EC No.: 220-120-9 Index No.: 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	0 < 0.05 %	

		CLP classification, notes: Specific concentration limits: Skin Sens. 1; H317: C ≥ 0,05 % Route of exposure: Oral Value : 597 mg/kg bw	
Pyridine-2-thiol 1-oxide, sodium salt	CAS No.: 3811-73-2 EC No.: 223-296-5 Index No.: 613-344-00-7	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 4; H302 STOT RE 1; H372 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400; M-factor 100 Aquatic Chronic 2; H411 Route of exposure: Oral Value : 750 mg/kg bw Route of exposure: Dermal Value : 700 mg/kg bw Route of exposure: Inhalation Value : 1,08 mg/l	0 < 0.05 %
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC No.: 911-418-6 Index No.: 613-167-00-5 REACH Reg. No.: 01-2120764691-48	Acute Tox. 2; H310 Acute Tox. 2; H330 Acute Tox. 3; H301 Skin Corr. 1C; H314; SCL Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318; SCL Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317; SCL C ≥ 0,0015 % Aquatic Acute 1; H400; M-factor 100	0 < 0.0015 %

Aquatic Chronic 1;
 H410; M-factor 100
 EUH 071
 CLP classification,
 notes: Note: B
 Route of exposure:
 Oral
 Value : 100 mg/kg
 bw
 Route of exposure:
 Dermal
 Value : 50 mg/kg bw
 Route of exposure:
 Inhalation
 Value : 0,05 mg/l

Description of the mixture	Water suspensions of precipitated Calcium Carbonate (PCC) with polycarboxylate as dispersing agent. Also covers the nanoform.
Remarks, substance	Name of nanoform: Uncoated nano calcium carbonate Number based particle size distribution: d10: ca. 53 (52-53) nm d50: ca. 79 (78-79) nm d90: ca. 129 (128-129) nm Particle shape and aspect ratio: spherical, ca. 0.95 (0.9-1) Crystallinity: rhombohedral Surface functionalisation / treatment: no coating / treatment Specific surface area: 22.4 (10-60) m ² /g
Substance comments	The full text for all hazard statements is displayed in point 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If the situation is unclear or symptoms persist, seek medical attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Rinse skin with water/shower. Remove contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/ attention.
Eye contact	Immediately flush eyes with plenty of water for several minutes, holding eyelids open. If eye irritation or other symptoms persist, seek medical attention.
Ingestion	Rinse mouth with water and then drink plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

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

Acute symptoms and effects	May produce an allergic reaction.
Delayed symptoms and effects	None known.

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

Other information Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Improper extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards The product is not flammable.

Hazardous combustion products Harmful compounds may be evolved during fire. > 600 °C. Carbon dioxide.

5.3. Advice for firefighters

Personal protective equipment Wear appropriate protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid generation and spreading of dust. Avoid the formation of aerosol or mist.

Personal protection measures Wear appropriate personal protective equipment. Avoid breathing dust. Avoid breathing mist or spray.

6.2. Environmental precautions

Environmental precautionary measures No special measures required.

6.3. Methods and material for containment and cleaning up

Clean up Avoid generation and spreading of dust. Avoid the formation of aerosol or mist. Collect product with a vacuum cleaner or sweep it up, and store in a tightly sealed container for recovery or disposal. Wash surfaces with plenty of water.

6.4. Reference to other sections

Other instructions Safe handling: see point 7.
Personal protective equipment: see point 8.
Waste disposal: see point 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Ensure adequate ventilation. Avoid breathing dust. Avoid breathing mist or spray. Avoid contact with skin, eyes, and clothing.

Protective safety measures

Preventive measures to prevent aerosol and dust generation Prevent formation of dust. Avoid the formation of aerosol or mist.

Advice on general occupational hygiene Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in a well-ventilated place. Keep cool. Store in a closed container.

Conditions to avoid For incompatible materials see point 10.5.

Conditions for safe storage

Packaging compatibilities Store in original package or container.

Requirements for storage rooms and vessels Keep container tightly closed.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Dust		Country of origin: United Kingdom Limit value type: TWA Limit value (8 h) : 4 mg/m ³ Particle fraction: Respirable	
		Country of origin: United Kingdom Limit value type: TWA Limit value (8 h) : 10 mg/m ³ Particle fraction: Inhalable	
Calcium carbonate	CAS No.: 471-34-1	Country of origin: United Kingdom Limit value type: TWA Limit value (8 h) : 10 mg/m ³ Particle fraction: Inhalable	
		Country of origin: United Kingdom	

Limit value type: TWA
 Limit value (8 h) : 4 mg/m³
 Particle fraction: Respirable

DNEL / PNEC

Substance	Calcium carbonate (precipitated)
DNEL	<p>Group: Professional Route of exposure: Long-term inhalation (local) Value: 4,26 mg/m³</p> <p>Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 10 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term inhalation (local) Value: 1,06 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 10 mg/m³</p>
PNEC	<p>Route of exposure: Sewage treatment plant STP Value: 100 mg/l Comments: NOEC; AF=10</p>
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
DNEL	<p>Group: Professional Route of exposure: Long-term inhalation (local) Value: 0,02 mg/m³</p> <p>Group: Professional Route of exposure: Acute inhalation (local) Value: 0,04 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term inhalation (local) Value: 0,02 mg/m³</p> <p>Group: Consumer Route of exposure: Acute inhalation (local) Value: 0,04 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term oral (systemic) Value: 0,09 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Acute oral (systemic) Value: 0,11 mg/kg bw/day</p>
PNEC	<p>Route of exposure: Freshwater Value: 3,39 µg/l</p>

Route of exposure: Saltwater

Value: 3,39 µg/l

Route of exposure: Sewage treatment plant STP

Value: 0,23 mg/l

Route of exposure: Freshwater sediments

Value: 0,027 mg/kg dw

Route of exposure: Saltwater sediments

Value: 0,027 mg/kg dw

Route of exposure: Soil

Value: 0,01 mg/kg dw

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure Ensure adequate ventilation. Use local exhaust ventilation if necessary.

Eye / face protection

Suitable eye protection Use tight-fitting safety goggles. EN 166.

Hand protection

Suitable gloves type Use appropriate chemical-resistant, impervious gloves. EN 374.

Suitable materials PVC. Natural rubber. Neoprene.

Skin protection

Suitable protective clothing Wear appropriate protective clothing.

Respiratory protection

Respiratory protection necessary at In case of inadequate ventilation wear respiratory protection.

Recommended type of equipment Particle filter mask. FFP1, FFP2, FFP3 (EN 149).

Appropriate environmental exposure control

Environmental exposure controls Prevent entry into sewers or the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Fluid. Sludge.

Colour White.

Odour Odourless or mild odor.

Odour limit	Comments: Unknown.
pH	Value: 7 - 10 Comments: 35 % dry matter content Temperature: 20 °C
Melting point / melting range	Value: > 450 °C Comments: Calcium carbonate
Boiling point / boiling range	Comments: Not determined.
Flash point	Comments: Not applicable.
Flammability	Not flammable. (UN N.1)
Explosion limit	Comments: Not applicable.
Vapour pressure	Comments: Not applicable.
Vapour density	Comments: Not applicable.
Particle characteristics	Comments: Calcium carbonate: Nanoform. See section 3.
Density	Value: 1,20 - 1,45 kg/l
Solubility	Medium: Water Value: 0,0166 g/l Method: OECD 105 Comments: Calcium carbonate Temperature: 20 °C Medium: Water Comments: Nanoform. Not known.
Partition coefficient: n-octanol/ water	Comments: Not applicable.
Auto-ignition temperature	Method: UN N.4 Comments: Not self-igniting.
Decomposition temperature	Value: > 450 °C Comments: Calcium carbonate
Viscosity	Comments: Not determined.

9.2. Other information

9.2.2. Other safety characteristics

Comments	None reported.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Not reactive under normal use and storage conditions. Contact with acids liberates toxic gas.
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10.2. Chemical stability

Stability Chemically stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Contact with acids liberates toxic gas. CO₂. Reacts with acids to form carbon dioxide which displaces the oxygen in the air in closed spaces.

10.4. Conditions to avoid

Conditions to avoid Strong heating.

10.5. Incompatible materials

Materials to avoid Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products In a fire or if overheated, harmful compounds may be formed (carbon dioxide, carbon monoxide). Reacts with acids to form carbon dioxide which displaces the oxygen in the air in closed spaces.

SECTION 11: Toxicological information

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

Substance Calcium carbonate (precipitated)

Acute toxicity

Effect tested: LD50
Route of exposure: Oral
Method: OECD 420
Value: > 2000 mg/kg bw
Animal test species: Rat

Effect tested: LD50
Route of exposure: Dermal
Method: OECD 402
Value: > 2000 mg/kg bw
Animal test species: Rat

Effect tested: LC50
Route of exposure: Inhalation.
Method: OECD 403
Duration: 4 hour(s)
Value: > 3 mg/l
Animal test species: Rat

Substance

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

Acute toxicity

Effect tested: LD50
Route of exposure: Dermal
Value: > 2000 mg/kg
Animal test species: Rat

Effect tested: LD50
Route of exposure: Oral

Value: 1150 mg/kg
Animal test species: Mouse

Effect tested: LD50
Route of exposure: Oral
Value: 597 mg/kg
Animal test species: Rat

Other toxicological data

There is no toxicological data available about the product as such. The product is not classified as acutely toxic.

Other information regarding health hazards

Substance	Calcium carbonate (precipitated)
Skin corrosion / irritation test result	Method: In vivo OECD 404 Species: Rabbit Evaluation result: Not irritating.
Substance	1,2-benzisothiazol-3(2H)-one
Skin corrosion / irritation test result	Species: Rabbit Evaluation result: Irritating.
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Skin corrosion / irritation test result	Species: Rabbit Evaluation result: Irritating.
Assessment of skin corrosion / irritation, classification	The product is not classified as irritant or corrosive to skin.
Substance	Calcium carbonate (precipitated)
Eye damage or irritation, test results	Method: In vivo OECD 405 Species: Rabbit Evaluation result: Not irritating.
Substance	1,2-benzisothiazol-3(2H)-one
Eye damage or irritation, test results	Species: Rat Evaluation result: Severe eye irritation
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Eye damage or irritation, test results	Exposure time: 24 hour(s) Species: Rabbit Evaluation result: Severe eye irritation
Assessment of eye damage or irritation, classification	The product is not classified as damaging or irritating to eyes.
Substance	Calcium carbonate (precipitated)
Respiratory or skin sensitisation	Method: OECD 429 Species: Mouse Evaluation result: Not sensitizing
Substance	1,2-benzisothiazol-3(2H)-one
Respiratory or skin sensitisation	Toxicity type: Skin sensitivity Species: Rabbit Evaluation result: Sensitizing.

Substance	Pyridine-2-thiol 1-oxide, sodium salt
Respiratory or skin sensitisation	Toxicity type: Skin sensitivity Species: Guinea pig Evaluation result: Not sensitizing
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Respiratory or skin sensitisation	Toxicity type: Skin sensitivity Method: OECD 406 Evaluation result: Sensitizing.
Sensitisation	The product is not classified as a respiratory or skin sensitiser. However, the product contains a small amount of a component that may produce an allergic reaction.
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Germ cell mutagenicity	Method: OECD 471 Evaluation result: Negative. Method: OECD 474 Evaluation result: Negative.
Mutagenicity	The product is not classified as a mutagen. Calcium carbonate: In vitro (OECD 471, OECD 473, OECD 476).
Carcinogenicity, other information	The product is not classified as a carcinogen.
Reproductive toxicity	The product is not classified as toxic to reproduction. Calcium carbonate: NOEL: 1000 mg/kg bw/d (OECD 422).
Assessment of specific target organ toxicity - single exposure, classification	The product is not classified as toxic to specific target organs at a single exposure.
Specific target organ toxicity - repeated exposure, test results	Method: OECD 422 Route of exposure: Oral Species: Rat Comments: Calcium carbonate: NOAEL: 1000 mg/kg bw/d Method: OECD 413 Route of exposure: Inhalation. Species: Rat Comments: Calcium carbonate: NOAEC: 0,212 mg/l
Assessment of specific target organ toxicity - repeated exposure, classification	The product is not classified as toxic to specific target organs at repeated exposure.
Assessment of aspiration hazard, classification	The product is not classified as an aspiration hazard.
11.2 Other information	
Endocrine disruption	Ingredients: no endocrine disrupting properties reported.
Other information	No other health effects reported.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Calcium carbonate (precipitated)
Aquatic toxicity, fish	<p>Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Oncorhynchus mykiss Method: OECD 203 Evaluation: >100% v/v saturated solution of test material - Exceeds maximum solubility of substance. Comments: Acute toxicity is greater than the highest concentration tested and therefore exceeds the maximum solubility of the product in water.</p>
Substance	1,2-benzisothiazol-3(2H)-one
Aquatic toxicity, fish	<p>Value: 0,74 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s)</p>
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Aquatic toxicity, fish	<p>Value: 0,0073 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s)</p>
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Aquatic toxicity, fish	<p>Value: 0,22 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Oncorhynchus mykiss Method: OECD 203</p> <p>Value: 0,098 mg/l Effect dose concentration: NOEC Test duration: 28 day(s) Species: Oncorhynchus mykiss Method: OECD 210</p>
Substance	Calcium carbonate (precipitated)
Aquatic toxicity, algae	<p>Value: > 14 mg/l Test duration: 72 hour(s) Species: Desmodesmus subspicatus Method: OECD 201 Comments: EC50 / EC20 / EC10 / NOEC</p>
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Aquatic toxicity, algae	<p>Value: 0,46 mg/l Effect dose concentration: EC50 Test duration: 72 hour(s)</p> <p>Value: 0,46 mg/l Effect dose concentration: NOEC</p>

	Test duration: 72 hour(s)
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Aquatic toxicity, algae	Value: 0,048 mg/l Effect dose concentration: EC50 Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: OECD 201 Value: 0,0012 mg/l Effect dose concentration: NOEC Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: OECD 201 Value: 0,0052 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Skeletonema costatum Method: DIN EN ISO 10253 Value: 0,00064 mg/l Effect dose concentration: NOEC Test duration: 48 hour(s) Species: Skeletonema costatum Method: DIN EN ISO 10253
Substance	Calcium carbonate (precipitated)
Aquatic toxicity, crustacean	Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Method: OECD 202 Evaluation: >100% v/v saturated solution of test material - Exceeds maximum solubility of substance. Comments: Acute toxicity is greater than the highest concentration tested and therefore exceeds the maximum solubility of the product in water.
Substance	1,2-benzisothiazol-3(2H)-one
Aquatic toxicity, crustacean	Value: 2,44 mg/l Effect dose concentration: EC50 Exposure time: 48 hour(s) Species: Daphnia magna
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Aquatic toxicity, crustacean	Value: 0,022 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Value: 0,0092 mg/l Effect dose concentration: LC50 Test duration: 48 hour(s)
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and

	2-methyl-2H-isothiazol-3-one (3:1)
Aquatic toxicity, crustacean	<p>Value: 0,1 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Method: OECD 202</p> <p>Value: 0,004 mg/l Effect dose concentration: NOEC Test duration: 21 day(s) Species: Daphnia magna</p>
Toxicity to bacteria	<p>Value: > 1000 mg/l Effect dose concentration: EC50 Test duration: 3 hour(s) Species: Activated sludge Method: OECD 209 Comments: Calcium carbonate</p> <p>Value: 1000 mg/l Effect dose concentration: NOEC Test duration: 3 hour(s) Species: Activated sludge Method: OECD 209 Comments: Calcium carbonate</p>
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Toxicity to bacteria	<p>Value: 7,92 mg/l Effect dose concentration: EC50 Test duration: 3 hour(s) Method: OECD 209</p> <p>Value: 0,97 mg/l Effect dose concentration: EC20 Test duration: 3 hour(s) Method: OECD 209</p>
Toxicity to earthworm	<p>Value: > 1000 mg/kg Effect dose concentration: EC50 Test duration: 14 day(s) Species: Eisenia fetida Method: OECD 207 Comments: Calcium carbonate</p> <p>Value: 1000 mg/kg Effect dose concentration: NOEC Test duration: 14 day(s) Species: Eisenia fetida Method: OECD 207 Comments: Calcium carbonate</p>
Toxicity to soil microorganisms	<p>Value: 1000 mg/kg Effect dose concentration: EC50 Test duration: 28 day(s) Species: microorganisms</p>

	Method: OECD 216 Comments: Calcium carbonate
	Value: 1000 mg/kg Effect dose concentration: NOEC Test duration: 28 day(s) Species: microorganisms Method: OECD 216 Comments: Calcium carbonate
Plant toxicity	Value: > 1000 mg/kg Effect dose concentration: EC50 Test duration: 21 day(s) Species: Glycine max Lycopersicon esculentum Avena sativa Method: OECD 208 Comments: Calcium carbonate
	Value: 1000 mg/kg Effect dose concentration: NOEC Test duration: 21 day(s) Species: Glycine max Lycopersicon esculentum Avena sativa Method: OECD 208 Comments: Calcium carbonate
Ecotoxicity	The product is not classified as hazardous to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	Not relevant for inorganic substances.
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Biodegradability	Value: > 60 % Method: OECD 301 D
	Value: 100 % Method: OECD 302 B
	Value: > 80 % Method: OECD 303 A
	Method: OECD 308 Comments: 1,82 - 1, 92 d

12.3. Bioaccumulative potential

Substance	1,2-benzisothiazol-3(2H)-one
Bioconcentration factor (BCF)	Comments: Low potential for bioaccumulation. log Pow = 1,4
Substance	Pyridine-2-thiol 1-oxide, sodium salt
Bioconcentration factor (BCF)	Value: 50

	Comments: Low potential for bioaccumulation. $\log Pow = -2,64$
Substance	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Bioconcentration factor (BCF)	Value: 3,16 Comments: calculated $\log Kow \leq 0,71$ (OECD 117)
Bioaccumulation, evaluation	The product is not bioaccumulative.

12.4. Mobility in soil

Mobility	No data available.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain substances considered to be either PBT or vPvB at a concentration $\geq 0.1\%$.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	Ingredients: no endocrine disrupting properties reported.
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12.7. Other adverse effects

Additional ecological information	The product is not classified as hazardous to the environment. Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of in compliance with local and national regulations.
Appropriate methods of disposal for the contaminated packaging	After usage, empty the packing completely. Uncleaned empty containers are to be handled in the same way as the ones containing products. Dispose of empty containers to an approved waste disposal facility for recycling or disposal.

SECTION 14: Transport information

14.1. UN number

Comments	The product is not classified for transportation.
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14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

IMDG Marine pollutant No.

14.6. Special precautions for user

Special safety precautions for user Avoid generation and spreading of dust. Avoid the formation of aerosol or mist.

14.7. Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Legislation and regulations No specific regulations.

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

EUH 071 Corrosive to the respiratory tract.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H372 Causes damage to organs through prolonged or repeated exposure
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Training advice Read safety data sheet.

Key literature references and sources for data Previous version of the SDS 18.11.2022
EH40/2005 Workplace exposure limits (4th ed, 2020)

Abbreviations and acronyms used AF: Assessment factor
DNEL: Derived No-Effect Level
EC50: Effective concentration: concentration which kills or immobilises 50 % of exposed organisms
LC50: Lethal concentration 50 % (median lethal concentration): concentration which kills 50 % of exposed organisms
LD50: Lethal dose 50 % (median lethal dose): dose which kills 50 % of exposed organisms

	<p>NOAEC: No Observed Adverse Effect Concentration: concentration at which no adverse effects are observed</p> <p>NOAEL: No Observed Adverse Effect Level: loading rate at which no adverse effects are observed</p> <p>NOEC: No Observed Effect Concentration: concentration at which no effects are observed</p> <p>NOEL: No Observed Effect Level: loading rate at which no effects are observed</p> <p>OEL: Occupational exposure limit</p> <p>PNEC: Predicted No-Effect Concentration</p> <p>STEL: Short-term exposure limit.</p> <p>TWA: Time-weighted average</p>
Information added, deleted or revised	<p>7.10.2020: Safety data sheet revised. Also covers the nanoform.</p> <p>18.11.2022: Update according to Annex II of the REACH Regulation ([EU] 2020/878). Revised product name. The former product name: Nordkalk Enrich C 50 (ZPT/BIT), Nordkalk Enrich A 50 (ZPT/BIT)</p> <p>7.6.2024: Composition of the product changed. Change to Sections: 2.2, 2.3, 3.2, 8.1, 11.1, 12.1, 12.2, 12.3, 12.5, 16</p>
Version	1
Comments	<p>Disclaimer</p> <p>This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.</p>