

SAFETY DATA SHEET

Nordkalk**Nordkalk Calcium carbonate****Nordkalk**

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 01.04.2015

Revision date 13.12.2022

1.1. Product identifier

Product name Nordkalk Calcium carbonate

Synonyms limestone, limestone powder, crushed limestone, limestone filler

IUPAC name Calcium carbonate - CaCO₃

REACH Reg. No., comments The substance has been exempted from the obligation to register in accordance with Article 2(7)(b) and Annex V of REACH regulation.

CAS No. 1317-65-3

EC No. 215-279-6

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

Use of the substance / mixture Desulphurisation of industrial flue gases; additives in paper; paints and surface coatings; plastics, rubbers and elastomers; adhesives; mastics, sealants and plasters; fertilisers and soil conditioners; animal feeds; foodstuffs; pharmaceuticals; toiletries and personal care products; cleaning products; glass and ceramics; water treatment chemicals; a carrier for insecticides and herbicides; intermediate in the recovery of cooking chemicals in kraft and soda pulping; 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 (in Finland) 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.
----------------------------------	--

2.2. Label elements

Other label information (CLP)	No labeling. In accordance with current regulations, this product has not been classified as hazardous.
--------------------------------------	---

2.3. Other hazards

PBT / vPvB	The substance does not meet the criteria for PBT or vPvB substance according to Regulation (EC) No 1907/2006, Annex XIII.
Other hazards	Calcium carbonate is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents	Notes
Calcium carbonate	CAS No.: 1317-65-3 EC No.: 215-279-6	CLP classification, notes: Not classified.	> 75 %	

Substance comments	The product does not contain ingredients classified as hazardous to health or the environment at concentrations exceeding the concentration limits for listing such ingredients.
---------------------------	--

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	None known.
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.
Personal protection measures	Wear appropriate personal protective equipment. Avoid breathing dust.

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. 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 contact with skin, eyes, and clothing.
-----------------	---

Protective safety measures

Preventive measures to prevent aerosol and dust generation	Prevent formation of dust.
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 thoroughly after handling. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a dry place. Store in a closed container.
Conditions to avoid	Protect from moisture. 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 use stated in section 1.2.
------------------------	--------------------------------

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Calcium carbonate		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/m ³ Particle fraction: Respirable	
Inorganic dust		Country of origin: Finland Limit value (8 h) : 10 mg/m ³	

DNEL / PNEC

Substance	Calcium carbonate
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>

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Handle the product in closed systems or provide sufficient ventilation. Use local exhaust ventilation if necessary.
---	---

Eye / face protection

Suitable eye protection Use tight-fitting safety goggles.

Hand protection

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

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. FFP2, FFP3 (EN 149).

Thermal hazards

Thermal hazards Not relevant.

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	Solid. Powder. Granular.
Colour	White.
Odour	Odourless.
Odour limit	Comments: Not relevant.
pH	Value: 7,0 - 9,5 Temperature: 20 °C
Melting point / melting range	Value: > 450 °C
Boiling point / boiling range	Comments: Not applicable.
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: Not determined.
Density	Value: 2,7 - 2,95 g/cm ³

	Temperature: 20 °C
Bulk density	Value: 1,00 - 1,50 g/cm ³
Solubility	Medium: Water Value: 0,0166 g/l Method: OECD 105 Temperature: 20 °C
Partition coefficient: n-octanol/ water	Comments: Not applicable.
Auto-ignition temperature	Method: UN N.4 Comments: Not self-igniting.
Decomposition temperature	Value: > 450 °C
Viscosity	Comments: Not applicable.

9.2. Other information

9.2.2. Other safety characteristics

Comments	None reported.
----------	----------------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Not reactive under normal use and storage conditions.
------------	---

10.2. Chemical stability

Stability	Chemically stable under normal storage conditions.
-----------	--

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	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
Acute toxicity	<p>Effect tested: LD50 Route of exposure: Oral Method: OECD 420 Value: > 2000 mg/kg bw Animal test species: Rat</p> <p>Effect tested: LD50 Route of exposure: Dermal Method: OECD 402 Value: > 2000 mg/kg bw Animal test species: Rat</p> <p>Effect tested: LC50 Route of exposure: Inhalation. Method: OECD 403 Duration: 4 hour(s) Value: > 3 mg/l Animal test species: Rat</p>
Other toxicological data	The product is not classified as acutely toxic.

Other information regarding health hazards

Substance	Calcium carbonate
Skin corrosion / irritation test result	<p>Method: In vivo OECD 404 Species: Rabbit Evaluation result: Not irritating.</p>
Assessment of skin corrosion / irritation, classification	The product is not classified as irritant or corrosive to skin.
Substance	Calcium carbonate
Eye damage or irritation, test results	<p>Method: In vivo OECD 405 Species: Rabbit Evaluation result: Not irritating.</p>
Assessment of eye damage or irritation, classification	The product is not classified as damaging or irritating to eyes.
Substance	Calcium carbonate
Respiratory or skin sensitisation	<p>Method: OECD 429 Species: Mouse Evaluation result: Not sensitizing</p>
Sensitisation	The product is not classified as a respiratory or skin sensitiser.
Mutagenicity	The product is not classified as a mutagen. 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. 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: NOAEL: 1000 mg/kg bw/d Method: OECD 413 Route of exposure: Inhalation. Species: Rat Comments: 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	No endocrine disrupting properties known.
-----------------------------	---

SECTION 12: Ecological information

12.1. Toxicity

Substance	Calcium carbonate
Aquatic toxicity, fish	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.
Substance	Calcium carbonate
Aquatic toxicity, algae	Value: > 14 mg/l Test duration: 72 hour(s) Species: Desmodemus subspicatus Method: OECD 201 Comments: EC50 / EC20 / EC10 / NOEC
Substance	Calcium carbonate
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.
Toxicity to bacteria	Value: > 1000 mg/l Effect dose concentration: EC50 Test duration: 3 hour(s) Species: Activated sludge Method: OECD 209
	Value: 1000 mg/l Effect dose concentration: NOEC Test duration: 3 hour(s) Species: Activated sludge Method: OECD 209
Toxicity to earthworm	Value: > 1000 mg/kg Effect dose concentration: EC50 Test duration: 14 day(s) Species: Eisenia fetida Method: OECD 207
	Value: 1000 mg/kg Test duration: 14 day(s) Species: Eisenia fetida Method: OECD 207
Substance	Calcium carbonate
Toxicity to earthworm	Value: > 1000 mg/kg Effect dose concentration: EC50 Test duration: 14 day(s) Species: Eisenia fetida Method: OECD 207 Comments: NOEC: 1000 mg/kg
Toxicity to soil microorganisms	Value: 1000 mg/kg Effect dose concentration: EC50 Test duration: 28 day(s) Species: microorganisms Method: OECD 216
	Value: 1000 mg/kg Effect dose concentration: NOEC Test duration: 28 day(s) Species: microorganisms Method: OECD 216
Substance	Calcium carbonate
Toxicity to soil microorganisms	Value: > 1000 mg/kg Effect dose concentration: EC50 Test duration: 28 day(s) Species: microorganisms Method: OECD 216 Comments: NOEC: 1000 mg/kg
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

Value: 1000 mg/kg
 Effect dose concentration: NOEC
 Test duration: 21 day(s)
 Species: Glycine max
 Lycopersicon esculentum
 Avena sativa
 Method: OECD 208

Substance

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: NOEC: 1000 mg/kg

Substance

Calcium carbonate

Impact on sewage treatment

Value: > 1000 mg/l
Effect dose concentration: EC50
Test duration: 3 hour(s)
Species: Activated sludge
Method: OECD 209
Comments: NOEC: 1000 mg/l

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.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation The product is not bioaccumulative.

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties No endocrine disrupting properties known.

12.7. Other adverse effects

Additional ecological information The product is not classified as hazardous to the environment. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical After usage, empty the packing completely.

Appropriate methods of disposal for the contaminated packaging 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.

Other information Dispose of in compliance with local and national regulations.

SECTION 14: Transport information

Dangerous goods No

14.1. UN number

Comments The product is not classified for transportation.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

IMDG Marine pollutant No.

Comments The product is not classified as hazardous to the environment.

14.6. Special precautions for user

Special safety precautions for user Avoid any release of dust during transportation, by using air-tight tanks for powders and covered trucks for pebbles.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no) No

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

Chemical safety assessment The product is exempted from REACH registration and thus no formal chemical safety assessment has been carried out for this substance by the supplier. Data from registration dossiers for similar substance are disseminated on ECHA website (www.echa.europa.eu). Calcium carbonate (precipitated)

SECTION 16: Other information

Training advice Read safety data sheet.

Key literature references and sources for data Previous version of the SDS 27.2.2019
Safety Data Sheet for Calcium carbonate, natural (IMA) (December 2020)
Decree on Concentrations known to be Hazardous 654/2020 (HTP-arvot 2020), Finland
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
NOEC: No Observed Effect Concentration: concentration at which no effects are observed
OEL: Occupational exposure limit
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No-Effect Concentration
STEL: Short-term exposure limit.
TWA: Time-weighted average
vPvB: very Persistent and very Bioaccumulative substance

Information added, deleted or revised 27.2.2019: Safety data sheet revised.
13.12.2022: Update according to Annex II of the REACH Regulation ([EU] 2020/878). Changed identifiers for calcium carbonate (formerly CAS 471-34-1, EC number 207-439-9). UK occupational exposure limit added to section 8. Changes to sections: 1.1, 2.3, 3, 7.1, 7.3, 8.1, 8.2, 9.1, 10.1, 10.3, 11.2, 12.6, 14.6, 16

Last update date 13.12.2022

Version 1

Prepared by Sweco Industry Oy

Comments Disclaimer
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.