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SAFETY DATA SHEET

Nordkalk

Nordkalk Dolomite

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
 27.09.2012

 Revision date
 24.5.2024

1.1. Product identifier

Product name Nordkalk Dolomite

IUPAC name Calcium-magnesium carbonate - CaMg(CO₃)₂

REACH Reg. No., commentsThe substance has been exempted from the obligation to register in accordance

with Article 2(7)(b) and Annex V of REACH regulation.

CAS No. 16389-88-1 **EC No.** 240-440-2

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

Use of the substance / mixture Construction industry; Manufacture of chemical products; Manufacture of basic

metals, including alloys; Manufacture of other non-metallic mineral products (e.g. plasters, cement); Manufacture of stone, plaster, cement, glass and ceramic articles; Agriculture (e.g. fertilizers), forestry, fishery; Environmental protection; Water treatment chemicals; Flue gas treatment; Food/feedstuff additives; Manufacture of food products; Pharmaceuticals; Mining (including offshore industries); Paper articles; Manufacture of paints, varnishes and similar coatings,

printing ink and mastics

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 nameNordkalk Oy AbPostal addressSkräbbölevägen 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-magnesium 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
Dolomite	CAS No.: 16389-88-1	CLP classification, notes:	30 - 100 %	
	EC No.: 240-440-2	Not classified.		

Calcium carbonate CAS No.: 1317-65-3 CLP classification, notes: 20 - 70 %

EC No.: 215-279-6 Not classified.

Description of the mixtureDolomite class I: Dolomite > 53 %, Calcium carbonate 20-30 %

Dolomite class II: Dolomite 30-53 %, Calcium carbonate 25-70 %

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 Fresh air. 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 persist or are severe.

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 persist or are severe.

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

Improper extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazardsThe product is not flammable.

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

Above 600°C, dolomite decomposes to produce calcium-magnesium oxide and carbon dioxide. Calcium-magnesium oxide releases heat when in contact with

water, with the risk to fire surrounding flammable substances.

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. Avoid

contact with skin or eyes.

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

Preventitive 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

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/m³ Particle fraction: Inhalable Country of origin: United Kingdom Limit value type: TWA Limit value (8 h): 4 mg/m³ Particle fraction: Respirable	
Dust		Country of origin: United Kingdom Limit value type: TWA Limit value (8 h): 4 mg/m³ Particle fraction: Respirable Country of origin: United Kingdom Limit value type: TWA Limit value (8 h): 10 mg/m³ Particle fraction: Inhalable	
Inorganic dust		Country of origin: Finland Limit value (8 h) : 10 mg/ m3	

DNEL / PNEC

Substance Dolomite

DNEL Group: Professional

Route of exposure: Long-term inhalation (local)

Value: 4,26 mg/m³

Group: Professional

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Route of exposure: Long-term inhalation (systemic)

Value: 10 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (local)

Value: 1,06 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 10 mg/m³

Substance Calcium carbonate

DNEL Group: Professional

Route of exposure: Long-term inhalation (local)

Value: 4,26 mg/m³

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 10 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (local)

Value: 1,06 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 10 mg/m³

PNEC Route of exposure: Sewage treatment plant STP

Value: 100 mg/l

Comments: NOEC; AF=10

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent

exposure

Handle the product in closed systems or provide sufficient ventilation. Observe

occupational exposure limits and minimise the risk of inhalation of dust.

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
If it is not possible to reduce exposure levels to below exposure limit values by

at

ventilation or if dust forms, use appropriate respirator.

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. Beige. Light brown. Grey.

Odour limit Odourless or mild odor.

Comments: Unknown.

pH Status: In aqueous solution

Value: 7 - 9

Melting point / melting range Value: > 600 °C

Boiling point / boiling range Comments: Not applicable.

Flash point Comments: Not applicable.

Flammability Not flammable.

Explosion limitComments: Not applicable.Vapour pressureComments: Not applicable.Vapour densityComments: Not applicable.Particle characteristicsComments: Not determined.

Density Value: 2,75 - 2,90 g/cm³

Temperature: 20 °C

Solubility Medium: Water

Value: 28 - 120 mg/l 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

Comments: Calcium carbonate

Value: > 600 °C Comments: Dolomite 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. Decomposes at temperature

higher than 600°C to form calcium-magnesium oxide.

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 Dolomite

Acute toxicity Effect tested: LD50

Route of exposure: Oral Method: OECD 425 Value: > 2000 mg/kg bw Animal test species: Rat

Substance Calcium carbonate
Acute toxicity Effect tested: LD50

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> 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

Other toxicological data The product is not classified as acutely toxic.

Other information regarding health hazards

Substance Dolomite

Skin corrosion / irritation test

result

Evaluation result: Not irritating.

Substance Calcium carbonate

Skin corrosion / irritation test

result

Method: In vivo OECD 404

Species: Rabbit

Evaluation result: Not irritating.

Assessment of skin corrosion /

irritation, classification

The product is not classified as irritant or corrosive to skin.

Substance Dolomite

Eye damage or irritation, test

results

Evaluation result: Not irritating.

Substance Calcium carbonate

Eye damage or irritation, test

results

Method: In vivo OECD 405

Species: Rabbit

Evaluation result: Not irritating.

Assessment of eye damage or

irritation, classification

The product is not classified as damaging or irritating to eyes.

Substance Dolomite

Respiratory or skin sensitisation Evaluation result: Not sensitizing

Substance Calcium carbonate

Respiratory or skin sensitisation Method: OECD 429

Species: Mouse

Evaluation result: Not sensitizing

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 Nordkalk Dolomite - Version 2 Page 10 of 15

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). Dolomite: NOAEL: 1500 mg/kg bw/d (similar to OECD TG 414).

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 No endocrine disrupting properties known.

SECTION 12: Ecological information

12.1. Toxicity

Substance Dolomite

Aquatic toxicity, fish 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, 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 Dolomite

Aquatic toxicity, algae **Value:** > 100 mg/l

Effect dose concentration: EC50

Test duration: 72 hour(s) Species: freshwater algae Substance Calcium carbonate

Aquatic toxicity, algae Value: > 14 mg/l

Test duration: 72 hour(s)

Species: Desmodesmus subspicatus

Method: OECD 201

Comments: EC50 / EC20 / EC10 / NOEC

Substance Dolomite

Aquatic toxicity, crustacean Value: > 100 mg/l

Effect dose concentration: EC50

Test duration: 48 hour(s) **Species:** Daphnia magna **Method:** OECD 202

Value: 81,6 mg/l

Effect dose concentration: EC50 Test duration: 96 hour(s)

Species: Cancer magister (syn. Metacarcinus magister)

Value: 24,8 mg/l

Effect dose concentration: EC50 Test duration: 96 hour(s) Species: Pandalus danae

Value: > 500 mg/l

Effect dose concentration: LC50
Test duration: 24 hour(s)

Species: Ceriodaphnia dubia Hexagenia limbata

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.

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

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

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 does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility Not considered mobile.

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

osal

Avoid release to the environment.

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.

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 $% \left(1\right) =\left(1\right) \left(1\right) \left($

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.europe.eu). Calcium carbonate (precipitated)

Magnesium carbonate

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SECTION 16: Other information

Training advice Read safety data sheet.

Key literature references and

sources for data

Previous version of the SDS (4.3.2019)

Product Safety Data Sheet for Calcium-Magnesium carbonate (CCA Europe)

(February 2022)

EH40/2005 Workplace exposure limits (4th ed, 2020)

Decree on Concentrations known to be Hazardous 654/2020 (HTP-arvot 2020),

Finland

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

NOAEL: No Observed Adverse Effect Level: loading rate at which no adverse

effects are observed

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

13.12.2022: Safety Data Sheet revised.

4.3.2019: Safety data sheet revised.

The following sections have been updated:

1.3 Contact information

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). Exposure limit values changed (section 8.1). Changes to sections: 2.3, 3, 4.1, 7.1, 7.3, 8.1, 8.2, 9.1, 10.1, 10.2, 10.3, 11.1, 11.2, 12.3, 12.4,

12.6, 13.1, 14.6, 16

Last update date 24.5.2024

Version 2

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

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SDS supersedes all previous versions.