SAFETY DATA SHEET

Nordkalk Calcium Carbonate

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 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	04.08.2020

1.1. Product identifier

Product name	Nordkalk Calcium Carbonate (natural)
Synonyms	limestone, limestone powder, crushed limestone, limestone filler
IUPAC name	Calcium carbonate - $CaCO_3$
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 categories nordic (UCN).	55 Others
Use of the substance / preparation	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.

1.3. Details of the supplier of the safety data sheet

Company name	Nordkalk AS
Office address	Faehlmanni 11a
Postcode	46301
City	Rakke, Lääne- Virumaa country
Country	Estonia
Telephone number	+372 326 0720, Piia Kirs +372 523 9499
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: +372 7943 794 Description: Poisoning Information Centre (in Estonia 17), 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	For results of PBT and vPvB assessment, see point 12.5.
Other hazards	None reported.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance	Identification	Classification	Contents
Calcium carbonate	CAS No.:1317-65-3 EC No.: 215-279-6	CLP classification, notes: Not classified.	75 - 99,5 %

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. Absorb spill with inert material (e.g. sand, diatomaceous earth, commercial absorbent) and collect in clearly labeled containers for disposal. Collect product with a vacuum cleaner or by brushing, 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 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 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)	None reported.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

See the Annex 1 of this SDS for the appropriate national exposure limit values for inhalable and respirable dust.

DNEL / PNEC

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	Ensure adequate 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. FFP1, FFP2, FFP3 (EN 143).

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: Unknown.
pH	Value: 7,0 - 9,5 Temperature: 20 °C

Melting point / melting range	Value: > 450 °C
Boiling point / boiling range	Comments: Not relevant.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Flammability (solid, gas)	Not flammable. (UN N.1)
Explosion limit	Comments: Not applicable.
Vapour pressure	Comments: Not applicable.
Vapour density	Comments: Not applicable.
Density	Value: 2,7 - 2,95 g/cm³ Temperature: 20 °C
Bulk density	Value: 1,00 - 1,50 g/cm³
Solubility	Medium: Water Value: 0,0166 g/l Method: OECD 105 Temperature: 20 °C
Partition coefficient: n-octanol/ water	Comments: Not applicable.
Spontaneous combustability	Method: UN N.4 Comments: Not self-igniting.
Decomposition temperature	Value: > 450 °C
Viscosity	Comments: Not applicable.
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

9.2. Other information

Other physical and chemical properties

Comments	None reported.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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 toxicological effects

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

Other information regarding health hazards

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	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	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 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 SE, classification	The product is not classified as toxic to specific target organs at a single exposure.
Specific target organ toxicity - RE, 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 RE, 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.

Symptoms of exposure

Other information	No other health effects reported.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Calcium carbonate
Acute aquatic, 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
Acute aquatic, algae	**Value:** > 14 mg/l **Test duration:** 72 hour(s)

	Species: Desmodesmus subspicatus **Method:** OECD 201 **Comments:** EC50 / EC20 / EC10 / NOEC
Substance	Calcium carbonate
Acute aquatic, Daphnia	**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
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
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
Aquatic, comments	The product is not classified as hazardous to the environment.

12.2. Persistence and degradability

Persistence and degradability, comments	Not relevant for inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulative.

12.4. Mobility in soil

Mobility	No data available.

12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Environmental details, summation	The product is not classified as hazardous to the environment. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	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

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

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

14.6. Special precautions for user

Special safety precautions for user	Avoid generation and spreading of dust.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

Legislation and regulations	No specific regulations. National occupational exposure limits, Section 8.

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)

SECTION 16: Other information

Training advice	Read safety data sheet.
Key literature references and sources for data	Previous version of the SDS SDS by product manufacturer (8/2015)
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 PNEC: Predicted No-Effect Concentration STEL: Short-term exposure limit. TWA: Time-weighted average
Information added, deleted or revised	04.08.2020: Safety data sheet revised. The following sections have been updated: 1.1; 3.1; 8.1 Change in CAS and EC number

Version	2
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.

Annex 1

Occupational Exposure Limits in mg/m^3 8 hours TWA dust		
Member State	**Non specified (inert) dust INHALABLE**	**Non specified (inert) dust RESPIRABLE**
Austria	15	6
Belgium	10	3
Bulgaria		4
Denmark	10	5
Estonia	10	
Finland	10	/
France	10	5
Germany	10	3
Greece	10	5
Ireland	10	4
Italy	10	3
Lithuania		10
Luxembourg	10	6
Netherlands	10	5
Norway	10	5
Poland	10	
Portugal	10	5
Romania		10
Slovakia	10	
Spain	10	3
Sweden		5
Switzerland		6
UK	10	4