

# Nordkalk

## SAFETY DATA SHEET

### Nordkalk LKD

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	19.03.2021
-------------	------------

### 1.1. Product identifier

Product name	Nordkalk LKD, Nordkalk Fostop Structure Lime
Synonyms	Partly calcined limestone

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

Use categories nordic (UCN).	EuPCS: PC-TEC-OTH Other products for chemical or technical processes
Use of the substance / preparation	Building material industry, Chemical industry, Agriculture, Environmental protection (e.g. flue gas treatment, waste water treatment, sludge treatment), Waste water treatment, Civil engineering, Paper and paint industry
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	21600
City	Pargas
Country	Finland
Telephone number	+358 20 753 7000
Email	sds@nordkalk.com
Website	www.nordkalk.fi

### 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

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Irrit. 2; H315
	Eye Dam. 1; H318
	STOT SE 3; H335

### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label	Calcium oxide
Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Precautionary statements	P102 Keep out of reach of children. P261 Avoid breathing dust/spray. P280 Wear protective gloves / protective clothing / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of water / . P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER / doctor / . P501 Dispose of contents / container to accordance with local regulation.

### 2.3. Other hazards

PBT / vPvB	The Annex XIII of the REACH Regulation No. 1907/2006 is not applicable to inorganic substances.
Other hazards	Endocrine disrupting properties: No information.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Composition type	Multi-constituent substance			
Substance	Identification	Classification	Contents	Notes
Calcium carbonate	CAS No.: 1317-65-3 EC NO.: 215-279-6	CLP classification, notes: Not classified.	50 – 80 %	
Calcium oxide	CAS No.: 1305-78-8 EC No.: 215-138-9 REACH Reg. No.: 01-2119475325-36-XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	5 – 30 %	
Substance comments	The full text for all hazard statements is displayed in section 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	Move exposed person immediately to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact	Wash contaminated skin with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or other symptoms persist, seek medical attention.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses, if present and easy to do, and continue rinsing. Get medical advice/attention.
Ingestion	Do not induce vomiting. Rinse the mouth and give 1-2 glasses of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

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

Acute symptoms and effects	Causes skin irritation. May irritate airways. Risk of serious eye damage.
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	Dry chemical, carbon dioxide or foam.
Improper extinguishing media	Do not use water to extinguish fire. Avoid moisture.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is non-combustible. Reacts with water by releasing heat (exothermic reaction). This may cause fire.
Hazardous combustion products	No hazardous combustion products known.

### 5.3 Advice for firefighters

Personal protective equipment	Wear appropriate protective equipment and self-contained breathing apparatus
Other information	Avoid dust formation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	Ensure adequate ventilation. Keep unnecessary and unprotected people from entering. Avoid generation and spreading of dust. Stop leak if safe to do so. Avoid humidification.
Personal protection measures	Wear appropriate personal protective equipment. Avoid contact with skin or eyes. Avoid breathing dust.

## 6.2. Environmental precautions

Environmental precautionary measures	Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Keep the product dry. Avoid release into drains, sewers or waterways. In case of environmental contamination, inform local authorities.
--------------------------------------	--

## 6.3. Methods and material for containment and cleaning up

Containment	Avoid generation and spreading of dust. Pick up solid product mechanically. Store in a dry place.
Clean up	Collect product with a vacuum cleaner or by brushing. Keep the material dry.

## 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	Avoid contact with skin or eyes. Avoid breathing dust. Wear appropriate personal protective equipment. Avoid generating excess dust. Ensure adequate ventilation (use process enclosures or local exhaust ventilation if necessary). Do not wear contact lenses when handling this product.
----------	---

## 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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands and exposed skin areas before breaks and at the end of workday. Take off contaminated clothing immediately and wash before reuse.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a dry place preferably silo or closed cabinet. Keep out of reach of children.
Conditions to avoid	Keep away from moisture and water. Minimize contact with air. For incompatible materials see point 10.5.

## Conditions for safe storage

Technical measures and storage conditions	Store in a dry, well-ventilated area.
Packaging compatibilities	Unsuitable packaging materials and coatings: Aluminium and brass.

## 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
Calcium carbonate	CAS No.: 1317-65-3	Limit value type: OEL Limit value (8 h) : 10 mg/m <sup>3</sup> Comments: Inorganic dust	
Calcium oxide	CAS No.: 1305-78-8	Country of origin: United Kingdom Limit value (8 h) : 2 mg/m <sup>3</sup> Country of origin: United Kingdom Limit value (8 h) : 1 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 4 mg/m <sup>3</sup> HTP-arvo (8 h) : 1 mg/m <sup>3</sup> Comments: Respirable fraction	

### DNEL / PNEC

Substance	Calcium carbonate
DNEL	<p><b>Group:</b> Professional <b>Route of exposure:</b> Long-term inhalation (local) <b>Value:</b> 4,26 mg/m<sup>3</sup></p> <p><b>Group:</b> Professional <b>Route of exposure:</b> Long-term inhalation (systemic) <b>Value:</b> 10 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer <b>Route of exposure:</b> Long-term inhalation (local) <b>Value:</b> 1,06 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer <b>Route of exposure:</b> Long-term inhalation (systemic) <b>Value:</b> 10 mg/m<sup>3</sup></p>
PNEC	<p><b>Route of exposure:</b> Sewage treatment plant STP <b>Value:</b> 100 mg/l <b>Comments:</b> NOEC; AF=10</p>
Substance	Calcium oxide
DNEL	<p><b>Group:</b> Professional <b>Route of exposure:</b> Acute inhalation (local)</p>

PNEC	<b>Value:</b> 4 mg/m <sup>3</sup> <b>Comments:</b> respirable dust
	<b>Group:</b> Professional <b>Route of exposure:</b> Long-term inhalation (local) <b>Value:</b> 1 mg/m <sup>3</sup> <b>Comments:</b> respirable dust
	<b>Group:</b> Consumer <b>Route of exposure:</b> Acute inhalation (local) <b>Value:</b> 4 mg/m <sup>3</sup> <b>Comments:</b> respirable dust
	<b>Group:</b> Consumer <b>Route of exposure:</b> Long-term inhalation (local) <b>Value:</b> 1 mg/m <sup>3</sup> <b>Comments:</b> respirable dust
	<b>Route of exposure:</b> Freshwater <b>Value:</b> 0,37 mg/l
	<b>Route of exposure:</b> Saltwater <b>Value:</b> 0,24 mg/l
	<b>Route of exposure:</b> Sewage treatment plant STP <b>Value:</b> 2,27 mg/l
	<b>Route of exposure:</b> Soil <b>Value:</b> 817,4 mg/kg

## 8.2 Exposure controls

### Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate general and local exhaust ventilation. Use local exhaust ventilation if necessary. Ensure that eye wash facilities and emergency shower are located near work station.
--	---

### Eye / face protection

Suitable eye protection	Use tight-fitting safety goggles. EN 166.
Eye protection, comments	Do not wear contact lenses when handling this product. It is advisable to have individual pocket eyewash.

### Hand protection

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

### Skin protection

Suitable protective clothing	Wear appropriate chemical-resistant, impervious protective clothing. Wear appropriate protective footwear.
------------------------------	--

Additional skin protection measures	Avoid prolonged or repeated contact with skin. Wash contaminated skin after exposure. Remove contaminated clothing and shoes and wash/clean them before reuse.
-------------------------------------	--

### Respiratory protection

Respiratory protection necessary at	If it is not possible to reduce exposure levels to below exposure limit values by ventilation, use appropriate respirator.
Recommended type of equipment	Particle filter mask. 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	Solid. Powder. Granular.
Colour	White. Beige. Light brown.
Odour	Odourless.
Odour limit	Comments: Unknown.
pH	Status: In aqueous solution Value: 12,3 Comments: Calcium oxide Temperature: 20 °C
Melting point / melting range	Value: > 450 °C Method: EU A.1
Boiling point / boiling range	Comments: Not relevant
Flash point	Comments: Not relevant
Evaporation rate	Comments: Not relevant
Flammability	Not flammable. (EU A.10)
Explosion limit	Comments: Not applicable.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.
Density	Value: 2,5 - 2,9 kg/dm <sup>3</sup> Method: EN 1097-7
Bulk density	Value: 0,75 -1,30 kg/dm <sup>3</sup>
Solubility	Medium: Water Value: 1337,6 mg/l Method: EU A.6  Comments: Not relevant.

Partition coefficient: n-octanol/ water	Method: EU A.16 Comments: Not self-igniting.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	
Viscosity	Comments: Not relevant.
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

## 9.2. Other information

### 9.2.2. Other safety characteristics

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reactivity	Reacts with water by releasing heat (exothermic reaction). 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	Reacts exothermically with acids (releasing heat). Contact with acids liberates toxic gas. CO <sub>2</sub> . 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	Do not allow contact with air. Protect from moisture. Do not store in damp conditions or areas of high humidity.
---------------------	--

### 10.5. Incompatible materials

Materials to avoid	Acids. Reacts with acids to form carbon dioxide which displaces the oxygen in the air in closed spaces. Water. Aluminium. Brass. In the presence of moisture produces hydrogen which may cause risk of explosion.
--------------------	---

### 10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products known.
----------------------------------	--

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects



Substance	Calcium carbonate
Acute toxicity	<p><b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Method:</b> OECD 420  <b>Value:</b> &gt; 2000 mg/kg bw</p> <p><b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LD50  <b>Route of exposure:</b> Dermal  <b>Method:</b> OECD 402  <b>Value:</b> &gt; 2000 mg/kg bw</p> <p><b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LC50  <b>Route of exposure:</b> Inhalation.  <b>Method:</b> OECD 403  <b>Duration:</b> 4 hour(s)  <b>Value:</b> &gt; 3 mg/l</p> <p><b>Animal test species:</b> Rat</p>
Substance	Calcium oxide
Acute toxicity	<p><b>Effect tested:</b> LD50  <b>Route of exposure:</b> Oral  <b>Method:</b> OECD 425  <b>Value:</b> &gt; 2000 mg/kg bw</p> <p><b>Animal test species:</b> Rat</p> <p><b>Effect tested:</b> LD50  <b>Route of exposure:</b> Dermal  <b>Method:</b> OECD 402  <b>Value:</b> &gt; 2500 mg/kg bw  <b>Animal test species:</b> Rabbit</p>
Other toxicological data	The product is not classified as acutely toxic. There is no toxicological data available about the product as such.

### Other information regarding health hazards

Substance	Calcium carbonate
Skin corrosion / irritation test result	<p><b>Method:</b> In vivo OECD 404  <b>Species:</b> Rabbit  <b>Evaluation result:</b> Not irritating.</p>
Substance	Calcium oxide
Skin corrosion / irritation test resultt	<p><b>Toxicity type:</b> Skin irritation  <b>Method:</b> In vivo  <b>Species:</b> Rabbit  <b>Evaluation result:</b> Irritating.</p> <p><b>Toxicity type:</b> Skin corrosion  <b>Method:</b> In vitro OECD 431  <b>Evaluation result:</b> Not corrosive.</p>

Assessment of skin corrosion / irritation, classification	Causes skin irritation.
Substance	Calcium carbonate
Eye damage or irritation, test results	<b>Method:</b> In vivo OECD 405 <b>Species:</b> Rabbit <b>Evaluation result:</b> Not irritating.
Substance	Calcium oxide
Eye damage or irritation, test results	<b>Toxicity type:</b> Eye damage <b>Method:</b> In vivo <b>Species:</b> Rabbit <b>Evaluation result:</b> Causes serious eye damage
Assessment of eye damage or irritation, classification	Causes serious eye damage.
Substance	Calcium carbonate
Respiratory or skin sensitisation	<b>Method:</b> OECD 429 <b>Species:</b> Mouse <b>Evaluation result:</b> Not sensitizing
Sensitisation	
Mutagenicity	The product is not classified as a respiratory or skin sensitiser. The product is not classified as a mutagen. (In vitro, OECD 471, 473, 476 read across)
Carcinogenicity, other information	The product is not classified as a carcinogen.
Reproductive toxicity	The product is not classified as toxic to reproduction.
Assessment of specific target organ toxicity - single exposure, classification	May cause respiratory irritation.
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.

## Symptoms of exposure

In case of ingestion	Irritates the gastrointestinal tract.
----------------------	---------------------------------------

## 11.2 Other information

Endocrine disruption	No information.
Other information	No other health effects reported.

## SECTION 12: Tiedot vaarallisuudesta ympäristölle

### 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.**elmä:** OECD 203

Substance  
 Aquatic toxicity, fish

Calcium oxide

**Value:** 50,6 mg/l  
**Effect dose concentration:** LC50  
**Test duration:** 96 hour(s)  
**Species:** freshwater fish  
**Comments:** calcium dihydroxide

**Value:** 457 mg/l  
**Effect dose concentration:** LC50  
**Test duration:** 96 hour(s)  
**Species:** marine water fish  
**Comments:** calcium dihydroxide

Substance  
 Aquatic toxicity, algae

Calcium carbonate

**Value:** > 14 mg/l  
**Test duration:** 72 hour(s)  
**Species:** Desmodesmus subspicatus  
**Method:** OECD 201  
**Comments:** EC50 / EC20 / EC10 / NOEC

Substance  
 Aquatic toxicity, algae

Calcium oxide

**Value:** 184,57 mg/l  
**Effect dose concentration:** EC50  
**Test duration:** 72 hour(s)  
**Species:** freshwater algae  
**Comments:** calcium dihydroxide

**Value:** 48 mg/l  
**Effect dose concentration:** NOEC  
**Test duration:** 72 hour(s)  
**Species:** freshwater algae  
**Comments:** calcium dihydroxide

Substance  
 Aquatic toxicity, crustacean

Calcium carbonate

**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 oxide
Aquatic toxicity, crustacean	<p><b>Toxicity type:</b> Chronic  <b>Value:</b> 32 mg/l  <b>Effect dose concentration:</b> NOEC  <b>Test duration:</b> 14 day(s)  <b>Species:</b> marine water invertebrates  <b>Comments:</b> calcium dihydroxide</p> <p><b>Value:</b> 49,1 mg/l  <b>Effect dose concentration:</b> EC50  <b>Test duration:</b> 48 hour(s)</p> <p><b>Species:</b> freshwater invertebrates  <b>Comments:</b> calcium dihydroxide</p> <p><b>Value:</b> 158 mg/l  <b>Effect dose concentration:</b> LC50  <b>Test duration:</b> 96 hour(s)  <b>Species:</b> marine water invertebrates  <b>Comments:</b> calcium dihydroxide</p>
Toxicity to earthworm	<p><b>Value:</b> 2000 mg/kg  <b>Species:</b> macro organisms  <b>Method:</b> soil dry weight  <b>Comments:</b> calcium dihydroxide</p>
Toxicity to soil microorganisms	<p><b>Value:</b> 12000 mg/kg  <b>Species:</b> microorganisms  <b>Method:</b> soil dry weight  <b>Comments:</b> calcium dihydroxide</p>
Plant toxicity	<p><b>Value:</b> 1080 mg/kg  <b>Effect dose concentration:</b> NOEC  <b>Test duration:</b> 21 day(s)  <b>Comments:</b> calcium dihydroxide</p>
Ecotoxicity	<p>The product is not classified as hazardous to the environment. There is no ecotoxicological data available about the product as such. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.</p>

## 12.2. Persistence and degradability

Persistence and degradability description/evaluation	Not relevant for inorganic substances.
--	--

## 12.3. Bioaccumulative potential

Bioaccumulation, evaluation	Not relevant for inorganic substances
-----------------------------	---------------------------------------

## 12.4. Mobility in soil

Mobility	Calcium oxide reacts with water and/or carbon dioxide to form respectively calcium dihydroxide and/or calcium carbonate, which are sparingly soluble, and present a low mobility in most soils.
----------	---

## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not relevant for inorganic substances.
------------------------------------	--

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties	No information.
---------------------------------	-----------------

## 12.7. Other adverse effects

Additional ecological information	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Prevent entry into drains, sewers, waterways or soil.
-----------------------------------	--

## 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. Avoid release to the environment.
Appropriate methods of disposal for the contaminated packaging	The used packaging is only meant for packing this product; it should not be reused for other purposes. After usage, empty the packing completely.
Other information	Processing, use or contamination of this product may change the waste management options.

## SECTION 14: Transport information

### 14.1. UN number

ADR/RID/ADN	1910
IMDG	1910
ICAO/IATA	1910
Comments	Not classified as hazardous for transport [ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea)]. Classified as hazardous for air transport (ICAO/IATA).

### 14.2. UN proper shipping name

Proper shipping name English	Calcium oxide
ADR/RID/ADN	
ADR/RID/ADN	Calcium oxide
IMDG	CALCIUM OXIDE
ICAO/IATA	CALCIUM OXIDE

### 14.3. Transport hazard class(es)

ADR/RID/ADN	8
Classification code ADR/RID/ADN	C6
IMDG	8
ICAO/IATA	8

### 14.4. Packing group

ICAO/IATA	III
-----------	-----

## 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	Prevent entry into sewers, waterways and soil. Avoid generation and spreading of dust.
-------------------------------------	--

## 14.7. Maritime transport in bulk according to IMO instruments

Hazard label ADR/RID/ADN	8
Hazard label IMDG	8
Hazard label ICAO/IATA	8

## 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)	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
Training advice	Read safety data sheet.
Key literature references and sources for data	Product specifications by manufacturer SDSs for product components Decree on Concentrations known to be Hazardous 654/2020 (HTP-arvot 2020), Finland
Abbreviations and acronyms used	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:
Version	
Comments	

1

**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.