

SAFETY DATA SHEET



Nordkalk Dolomite

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	27.09.2012
Revision date	05.03.2019

1.1. Product identifier

Product name	Nordkalk Dolomite
IUPAC name	Calcium-magnesium carbonate - $\text{CaMg}(\text{CO}_3)_2$
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.	16389-88-1
EC No.	240-440-2

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	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, 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

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 county
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), 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

Other label information (CLP)	No labeling. In accordance with current regulations, this product has not been classified as hazardous.
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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
Dolomite	CAS No.: 16389-88-1 EC No.: 240-440-2	CLP classification, notes: Not classified.	30 - 100 %
Calcium carbonate	CAS No.: 471-34-1 EC No.: 207-439-9	CLP classification, notes: Not classified.	20 - 70 %
Description of the mixture	Dolomite 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	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

Eye contact	irritation or rash occurs: Get medical advice/ attention. 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.
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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. 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.
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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.
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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,
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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.
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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.
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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 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.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Inorganic dust		TWA (8h): 5 mg/m ³	

DNEL / PNEC

Substance	Dolomite
DNEL	Group: Professional Route of exposure: Long-term inhalation (local) Value: 4,26 mg/m ³

Substance	<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>
	Calcium carbonate
	<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>
DNEL	
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	Ensure adequate ventilation. Use local exhaust ventilation if necessary.
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Eye / face protection

Suitable eye protection	Use tight-fitting safety goggles.
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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.
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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.
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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	Comments: Unknown.
Odour limit	
pH	Status: In aqueous solution Value: 7-9
Melting point / melting range	Value: > 600 °C
Boiling point / boiling range	Comments: Not relevant.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not relevant.
Flammability (solid, gas)	Not flammable.
Explosion limit	Comments: Not applicable.
Vapour pressure	Comments: Not applicable.
Vapour density	Comments: Not applicable.
Density	Value: 2,75 - 2,90 kg/dm ³ Temperature: 20 °C
Solubility	Medium: Water Value: 28 - 120 mg/l 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 Comments: Calcium carbonate Value: > 600 °C Comments: Dolomite
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	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 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	
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.

Assessment of specific target organ SE, classification	Calcium carbonate: NOEL: 1000 mg/kg bw/d (OECD 422). 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: Calcium carbonate: NOAEL: 1000 mg/kg bw/d
Assessment of specific target organ toxicity RE, classification	Method: OECD 413 Route of exposure: Inhalation. Species: Rat Comments: Calcium carbonate: NOAEC: 0,212 mg/l
Assessment of aspiration hazard, classification	The product is not classified as an aspiration hazard.

Symptoms of exposure

Other information	No other health effects reported.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Dolomite
Acute aquatic, 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
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	Dolomite
Acute aquatic, algae	Value: > 100 mg/l Effect dose concentration: EC50 Test duration: 72 hour(s) Species: freshwater algae
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	Dolomite
Acute aquatic, Daphnia	<p>Value: > 100 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna Method: OECD 202</p> <p>Value: 81,6 mg/l Effect dose concentration: EC50 Test duration: 96 hour(s) Species: Cancer magister (syn. Metacarcinus magister)</p> <p>Value: 24,8 mg/l Effect dose concentration: EC50 Test duration: 96 hour(s) Species: Pandalus danae</p> <p>Value: > 500 mg/l Effect dose concentration: LC50 Test duration: 24 hour(s) Species: Ceriodaphnia dubia Hexagenia limbata</p>
Substance	Calcium carbonate
Acute aquatic, Daphnia	<p>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.</p>
Toxicity to bacteria	<p>Value: > 1000 mg/l Effect dose concentration: EC50 Test duration: 3 hour(s) Species: Activated sludge Method: OECD 209</p> <p>Value: 1000 mg/l Effect dose concentration: NOEC Test duration: 3 hour(s) Species: Activated sludge 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</p> <p>Value: 1000 mg/kg Test duration: 14 day(s) Species: Eisenia fetida Method: OECD 207</p>
Toxicity to soil microorganisms	Value: 1000 mg/kg

	<p>Effect dose concentration: EC50 Test duration: 28 day(s) Species: microorganisms Method: OECD 216</p> <p>Value: 1000 mg/kg Effect dose concentration: NOEC Test duration: 28 day(s) Species: microorganisms Method: OECD 216</p>
Plant toxicity	<p>Value: > 1000 mg/kg Effect dose concentration: EC50 Test duration: 21 day(s) Species: Glycine max Lycopersicon esculentum Avena sativa Method: OECD 208</p> <p>Value: 1000 mg/kg Effect dose concentration: NOEC Test duration: 21 day(s) Species: Glycine max Lycopersicon esculentum Avena sativa Method: OECD 208</p>
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.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulative.
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12.4. Mobility in soil

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

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Other adverse effects

Environmental details, summation	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

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.
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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.
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14.6. Special precautions for user

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

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) National Regulation no 293 "Töökeskonna keemiliste ohutegurite piirnormid"

Abbreviations and acronyms used	<p>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</p>
Information added, deleted or revised	<p>4.3.2019: Safety data sheet revised. The following sections have been updated: 1.3 Contact information</p>
Version	1
Comments	<p>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.</p>

Annex 1

Occupational Exposure Limits in mg/m³ 8 hours TWA Dust – in EU 27¹ + Norway & Switzerland

Country/Authority (see caption p. 2)	Non specified (inert) dust INHALABLE	Non specified (inert) dust RESPIRABLE
Austria/I	15	5
Belgium/II	10	3
Bulgaria/III		4
Czech Republic/IV		
Cyprus/V		/
Denmark/VI	10	5
Estonia	10	
Finland/VII	10	/
France/VIII	10	
France/IX		5
Germany/X	10	3
Greece/XI	10	5
Hungary		
Ireland/XII	10	4
Italy/XIII	10	3
Lithuania/XIV		10
Luxembourg/XV	10	6
Malta ² / XVI		/
Netherlands/ XVII	10	5
Norway/ XVIII	10	5
Poland	10	
Portugal/ XIX	10	5
Romania/ XX		10
Slovakia	10	
Slovenia		
Spain/XXI	10	3
Sweden/XXII		5
Switzerland/XXIII		6
UK/XXIV	10	4

¹ Missing information for Latvia

² When needed, Maltese authorities refer to values from the UK for OELVs which do not exist in the Maltese legislation.

Caption

Country		Adopted by/Law denomination	OEL Name (if specific)
Austria	I	Bundesministerium für Arbeit und Soziales	Maximale ArbeitsplatzKonzentration (MAK)
Belgium	II	Ministère de l'Emploi et du Travail	
Bulgaria	III	Ministry of Labour and Social Policy and Ministry of Health. Ordinance n°13 of 30/12/2003	Limit Values
Cyprus	IV	Department of Labour Inspection. Control of factory atmosphere and dangerous substances in factories, Regulations of 1981.	
Czech Republic	V	Governmental Directive n°441/2004	
Denmark	VI	Direktoratet for Arbejdstilsynet	Threshold Limit Value (TLV)
Estonia	VII	Republic of Estonia Government	OEL
Finland	VIII	Ministry of Social Affairs and Health	HTP values (concentrations known to be hazardous)
France	IX	Ministère de l'Industrie (RGIE)	Empoussiérage de référence
	X	Ministère du Travail	Valeur limite de Moyenne d'Exposition
Germany	XI	Bundesministerium für Arbeit und Soziales (BMAS)	TRGS-900 Arbeitsplatzgrenzwert (AGW)
Greece	XII	Legislation for mining activities	
Ireland	XIII	2002 Code of Practice for the Safety, Health & Welfare at Work (CoP)	
Italy	XIV	Associazione Italiana Degli Igienisti Industriali	Threshold Limit Values (based on ACGIH TLVs)
Lithuania	XV	Dėl Lietuvos higienos normos HN 23:2001	Ilgalaikio poveikio ribinė vertė (IPRV)
Luxembourg	XVI	Bundesministerium für Arbeit	Maximale ArbeitsplatzKonzentration (MAK)
Malta	XVII	OHSa – LN120 of 2003, www.ohsa.org.mt	OELVs
Netherlands	XVIII	Ministerie van Sociale Zaken en Werkgelegenheid	Publieke grenswaarden http://www.ser.nl/en/oel_database.a_spx
Norway	XIX	Direktoratet for Arbejdstilsynet	Administrative Normer (8hTWA) for Forurensing i Arbeidsmiljøet
Poland	XX	Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286)	OEL
Portugal	XXI	Instituto Portuges da Qualidade, Hygiene & Safety at Workplace NP1796:2007	Valores Limite de Exposição (VLE)
Romania	XXII	Government Decision n° 355/2007 regarding workers' health surveillance. Government Decision n° 1093/2006 regarding carcinogenic agents (in Annex 3: Quartz, Cristobalite, Tridymite).	OEL
Slovakia	XXIII	Governmental Directive No. 300/2007	Najvyšši prípustny expozičný limit – Highest allowed exposure limit (NPELc)
Spain	XXIV	Instrucciones de Técnicas Complementarias (ITC) Orden ITC/2585/2007	Valores Limites
Sweden	XXV	National Board of Occupational Safety and Health	Yrkeshygieniska Gränsvärden
Switzerland	XXVI		Valeur limite de Moyenne d'Exposition
United Kingdom	XXVII	Health & Safety Executive	Workplace Exposure Limits (WEL)

Source: IMA-Europe

Date: November 2012, updated version available at <http://www.ima-europe.eu/otherPublications.html>