

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

KERAKOVER KOMPACT PITTURA

Date of first edition: 4/12/2021

Safety Data Sheet dated 10/28/2021

version 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: KERAKOVER KOMPACT PITTURA

Trade code: 001029015-05

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

Recommended use: Mineral Paint coatings and Coverings

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy - +39-0536-816511

Ireland

Poison information centre: 01 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Sens. 1A May cause an allergic skin reaction.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



Warning

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water/...

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with applicable regulations.

Contains

2-methylisothiazol-3(2H)-one
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one
octhilonone (ISO); 2-octyl-2H-isothiazol-3-one
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Dir. 2004/42/EC (VOC directive)

Exterior walls of mineral substrate
EU limit value for this product (cat. A/c): 40 g/l
This product contains max 16.49 g/l VOC.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: Crystalline silica in breathable fraction present in the product does not contribute to the hazard classification according to the criteria laid down by the EC Regulation 1272/2008 (CLP) by virtue of the physical state of the product itself (liquid) as it is marketed and reasonably be expected to be used. (Position IMA-Europe, Classification of mixtures in liquid form containing crystalline silica (May 2020)). The liquid mixture, due to hardening or exposure to heat, can lose its liquid content (water and other liquid components) and appear in a solid state; in case of handling of the solid mixture for disposal (non-compliant product) it is necessary to apply the appropriate preventive measures referred to in section 13.

Contains:biocidal product. Contains: C(M)IT/MIT (3:1).The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments. It is recommended to avoid possible exposure to the skin. Protective gloves and work clothes are recommended. Minimize the uncontrolled release of product into the environment. When washing work equipment, water must not be dispersed in the soil or on surface water.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KERA KOVER KOMPACT PITTURA

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
2,5-4,9 %	Quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	
< 1 %	(Z)-9-octadecen-1-ol ethoxylated	CAS:9004-98-2 EC:500-016-2	Skin Irrit. 2, H315; Aquatic Acute 1, H400, M-Acute:1	01-2120139360-66
< 0,1 %	bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS:52-51-7 EC:200-143-0 Index:603-085-00-8	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10	
< 0,1 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 2, H411, M-Acute:1	01-2120761540-60
			Specific Concentration Limits: C ≥ 0.05%: Skin Sens. 1 H317	
< 0,01 %	2-methylisothiazol-3(2H)-one	CAS:2682-20-4 EC:220-239-6 Index:613-326-00-9	Acute Tox. 2, H330; Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10, EUH071	01-2120764690-50
			Specific Concentration Limits:	

C ≥ 0.0015%: Skin Sens. 1A H317

< 0,01 %	Pyrrithione zinc	CAS:13463-41-7 EC:236-671-3 Index:613-333-00-7	Acute Tox. 2, H330; Acute Tox. 3, H301; STOT RE 1, H372; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 1B, H360, M-Chronic:10, M-Acute:1000 Acute Toxicity Estimate : ATE - Oral : 221 mg/kg bw
< 0,01 %	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 2, H330; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Corrosive to the respiratory tract., M-Chronic:100, M-Acute:1 Specific Concentration Limits: C ≥ 0.0015%: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw
< 0,0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071 Specific Concentration Limits: C ≥ 0.6%: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 C ≥ 0.6%: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 C ≥ 0.0015%: Skin Sens. 1A H317

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

- Wash immediately with water.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

N.A.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

- None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Limestone	NATIONAL	BELGIUM		10.000				
	NATIONAL	HUNGARY		10.000				Inhalable aerosol
	NATIONAL	CHINA		8.000				Inhalable fraction
	NATIONAL	CHINA		4.000				Inhalable aerosol
	NATIONAL	KOREA, REPUBLIC OF		10.000				
	NATIONAL	JAPAN		2.000				Respirable dust
	NATIONAL	JAPAN		8.000				Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at

				the entry of a particle sampler
	NATIONAL	SPAIN	10.000	Inhalable aerosol
	NATIONAL	SWITZERLAND	3.000	Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000	OSHA: Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000	OSHA: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	10.000	NIOSH: total dust, calcium carbonate
	NATIONAL	UNITED STATES OF AMERICA	5.000	NIOSH: Respirable aerosol, calcium carbonate
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000	Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000	Respirable aerosol
	NATIONAL	ITALY	10.000	Come particelle non altrimenti specificate PNOC
	NATIONAL	CROATIA	10.000	
	NATIONAL	FRANCE	10.000	
	NATIONAL	NETHERLANDS	10.000	
	NATIONAL	PORTUGAL	10.000	
Calcium carbonate	NATIONAL	AUSTRALIA	10.000	This value is for inhalable dust containing no asbestos and <1 % crystalline silica.
	NATIONAL	CANADA	10.000	
	NATIONAL	FRANCE	10.000	inhalable aerosol
	NATIONAL	HUNGARY	10.000	inhalable aerosol
	NATIONAL	IRELAND	10.000	Inhalable fraction
	NATIONAL	IRELAND	4.000	Respirable fraction
	NATIONAL	LATVIA	6.000	
	NATIONAL	NEW ZEALAND	10.000	The value for inhalable dust containing no asbestos and less than 1% free silica.
	NATIONAL	POLAND	10.000	
	NATIONAL	SINGAPORE	10.000	(limestone, marble)
	NATIONAL	SWITZERLAND	3.000	respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000	total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000	respirable dust

Quartz

NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		inhalable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000		respirable aerosol
NATIONAL	ITALY	10.000		
NATIONAL	BELGIUM	10.000		
NATIONAL	KOREA, REPUBLIC OF	10.000		
NATIONAL	CROATIA	10.000		
NATIONAL	NETHERLANDS	10.000		
NATIONAL	PORTUGAL	10.000		
NATIONAL	SPAIN	10.000		
NATIONAL	CHILE	5.000		respirable fraction
NATIONAL	AUSTRALIA	0.100		Respirable fraction
NATIONAL	AUSTRIA	0.150		respirable aerosol
NATIONAL	BELGIUM	0.100		
NATIONAL	CANADA	0.100		Canada Ontario. Respirable aerosol
NATIONAL	CANADA	0.100		Canada Quebec
NATIONAL	DENMARK	0.300	0.600	Inhalable aerosol
NATIONAL	DENMARK	0.100	0.200	Respirable aerosol
NATIONAL	FINLAND	0.050		Respirable fraction
NATIONAL	FRANCE	0.100		Respirable aerosol
NATIONAL	HUNGARY	0.150		Respirable aerosol
NATIONAL	IRELAND	0.100		Respirable fraction
NATIONAL	NEW ZEALAND	0.200		Respirable aerosol
NATIONAL	CHINA	1.000		Inhalable fraction. 10% <= free SiO2 <= 50%.
NATIONAL	CHINA	0.700		Inhalable fraction. 50% < free SiO2 <= 80%.
NATIONAL	CHINA	0.500		Inhalable fraction. Free SiO2 < 80%.
NATIONAL	SINGAPORE	0.100		Respirable aerosol.
NATIONAL	SPAIN	0.100		Respirable fraction
NATIONAL	SWEDEN	0.100		Respirable aerosol
NATIONAL	SWITZERLAND	0.150		Respirable aerosol
NATIONAL	NETHERLANDS	0.075		Respirable dust
NATIONAL	ITALY	0.050		Silice cristallina
NATIONAL	ITALY	0.025		A2
NATIONAL	UNITED STATES OF AMERICA	0.050		NIOSH
NATIONAL	KOREA,	0.050		

		REPUBLIC OF			
	NATIONAL	ARGENTINA	0.050		
	NATIONAL	CHILE	0.080		
	NATIONAL	CROATIA	0.100		
	NATIONAL	ESTONIA	0.100		
	NATIONAL	INDIA	10.000		
	NATIONAL	LITHUANIA	0.100		
	NATIONAL	MALAYSIA	0.100		
	NATIONAL	MEXICO	0.025		Respirable fraction
	NATIONAL	NORWAY	0.300		Total dust
	NATIONAL	NORWAY	0.100		Respirable dust
	NATIONAL	PORTUGAL	0.025		
	NATIONAL	SLOVENIA	0.050	0.400	
	NATIONAL	SOUTH AFRICA	0.100		
	ACGIH	NNN	0.025		(R), A2 - Pulm fibrosis, lung cancer
	EU	NNN	0.100		(R), A2 - Pulm fibrosis, lung cancer
Quartz	NATIONAL	AUSTRALIA	0.100		Respirable fraction
	NATIONAL	AUSTRIA	0.150		Respirable aerosol
	NATIONAL	BELGIUM	0.100		
	NATIONAL	CANADA	0.100		Canada Ontario; Respirable aerosol
	NATIONAL	CANADA	0.100		Canada Quebec
	NATIONAL	DENMARK	0.300	0.600	Inhalable aerosol
	NATIONAL	DENMARK	0.100	0.200	Respirable aerosol
	NATIONAL	FINLAND	0.050		Respirable fraction
	NATIONAL	FRANCE	0.100		Respirable aerosol
	NATIONAL	HUNGARY	0.150		Respirable aerosol
	NATIONAL	IRELAND	0.100		Respirable fraction
	NATIONAL	NEW ZEALAND	0.200		Respirable aerosol
	NATIONAL	CHINA	1.000		Inhalable fraction. 10% <= free SiO2 <= 50%.
	NATIONAL	CHINA	0.700		Inhalable fraction. 50% < free SiO2 <= 80%.
	NATIONAL	CHINA	0.500		Inhalable fraction. Free SiO2 < 80%.
	NATIONAL	SINGAPORE	0.100		Respirable aerosol.
	NATIONAL	SPAIN	0.100		Respirable fraction
	NATIONAL	SWEDEN	0.100		Respirable aerosol
	NATIONAL	SWITZERLA ND	0.150		Respirable aerosol
	NATIONAL	NETHERLA NDS	0.075		Respirable dust
	NATIONAL	ITALY	0.050		Silice cristallina
	NATIONAL	ITALY	0.025		A2
	NATIONAL	ITALY	10.000		Come particelle non altrimenti specificate PNOC
	NATIONAL	KOREA, REPUBLIC OF	0.050		

	NATIONAL	UNITED STATES OF AMERICA	0.050		NIOSH
	NATIONAL	ARGENTINA	0.050		
	NATIONAL	CHILE	0.080		
	NATIONAL	CROATIA	0.100		
	NATIONAL	ESTONIA	0.100		
	NATIONAL	INDIA	10.000		
	NATIONAL	LITHUANIA	0.100		
	NATIONAL	MALAYSIA	0.100		
	NATIONAL	MEXICO	0.025		Respirable fraction
	NATIONAL	NORWAY	0.300		Total dust
	NATIONAL	NORWAY	0.100		Respirable dust
	NATIONAL	PORTUGAL	0.025		Respirable fraction
	NATIONAL	SLOVENIA	0.050	0.400	
	NATIONAL	SOUTH AFRICA	0.100		
	ACGIH	NNN	0.025		(R), A2 - Pulm fibrosis, lung cancer
Titanium dioxide	NATIONAL	AUSTRALIA	10.000		This value is for inhalable dust containing no asbestos and < 1% crystalline silica
	NATIONAL	BELGIUM	10.000		
	NATIONAL	CANADA	10.000		Ontario
	NATIONAL	CANADA	10.000		Quebec
	NATIONAL	DENMARK	6.000	12.000	Long term and short term: total dust
	NATIONAL	FRANCE	11.000		Inhalable aerosol
	NATIONAL	GERMANY	0.300	2.400	DFG; Long term and short term: excluding ultrafine particles; respirable fraction; multiplied by the material density;
	NATIONAL	IRELAND	10.000		Inhalable fraction
	NATIONAL	IRELAND	8.000		Respirable fraction
	NATIONAL	JAPAN	0.300		JSOH; Nanoparticle, as Ti
	NATIONAL	LATVIA	10.000		
	NATIONAL	NEW ZEALAND	10.000		The value for inhalable dust containing no asbestos and less than 1% free silica
	NATIONAL	CHINA	8.000		Inhalable fraction
	NATIONAL	POLAND	10.000	30.000	
	NATIONAL	ROMANIA	10.000	15.000	
	NATIONAL	SINGAPORE	10.000		
	NATIONAL	KOREA, REPUBLIC OF	10.000		
	NATIONAL	SPAIN	10.000		Inhalable aerosol
	NATIONAL	SWEDEN	5.000		Inhalable aerosol
	NATIONAL	SWITZERLAND	3.000		Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; total dust
	NATIONAL	UNITED KINGDOM OF GREAT	10.000		Inhalable aerosol

Mica		BRITAIN AND NORTHERN IRELAND			
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000		Respirable aerosol
	NATIONAL	ITALY	10.000		
	NATIONAL	ARGENTINA	10.000		
	NATIONAL	AUSTRIA	5.000	10.000	
	NATIONAL	BULGARIA	10.000		
	NATIONAL	CROATIA	10.000		Total dust
	NATIONAL	CROATIA	4.000		Respirable dust
	NATIONAL	ESTONIA	5.000		
	NATIONAL	GREECE	10.000		
	NATIONAL	GREECE	5.000		
	NATIONAL	INDONESIA	10.000		
	NATIONAL	LITHUANIA	5.000		
	NATIONAL	MALAYSIA	10.000		
	NATIONAL	MEXICO	10.000		
	NATIONAL	NORWAY	5.000		
	NATIONAL	PORTUGAL	10.000		
	NATIONAL	RUSSIAN FEDERATIO N	10.000		
	NATIONAL	SLOVAKIA	5.000		
	NATIONAL	SLOVENIA	6.000		
	NATIONAL	SOUTH AFRICA	10.000		Inhalable particulate
	NATIONAL	SOUTH AFRICA	5.000		Respirable particulate
	NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000		
	ACGIH	NNN	10		A4 - LRT irr
	NATIONAL	AUSTRALIA	2.500		
	NATIONAL	AUSTRIA	10.000		Inhalable aerosol
	NATIONAL	BELGIUM	3.000		
	NATIONAL	CANADA	3.000		Ontario: respirable aerosol
	NATIONAL	CANADA	3.000		Quebec
	NATIONAL	DENMARK	0.300	0.300	Long term and short term: fibres per cm ³
	NATIONAL	IRELAND	10.000		Inhalable fraction
	NATIONAL	IRELAND	0.800		respirable fraction
	NATIONAL	LATVIA	4.000		and phlogopite, muscovite
	NATIONAL	NEW ZEALAND	3.000		respirable dust
	NATIONAL	CHINA	2.000		Inhalable fraction
	NATIONAL	CHINA	1.500		Respirable fraction
	NATIONAL	SINGAPORE	3.000		respirable dust
	NATIONAL	KOREA, REPUBLIC OF	3.000		

Propane-1,2-diol	NATIONAL	SWITZERLAND	3.000		Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	3.000		NIOSH: respirable fraction
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	0.800		Respirable aerosol
	NATIONAL	ITALY	3.000		
	NATIONAL	CHILE	2.630		
	NATIONAL	CROATIA	10.000		Total dust
	NATIONAL	CROATIA	0.800		Respirable dust
	NATIONAL	ARGENTINA	3.000		
	NATIONAL	MALAYSIA	3.000		
	NATIONAL	MEXICO	3.000		Respirable fraction
	NATIONAL	SPAIN	3.000		Respirable fraction
	NATIONAL	SOUTH AFRICA	10.000		Inhalable particulate
	NATIONAL	SOUTH AFRICA	1.000		Respirable particulate
	NATIONAL	TAIWAN, PROVINCE OF CHINA	3.000		
	ACGIH	NNN	3		(R) - Pneumoconiosis
	NATIONAL	AUSTRALIA	474.000	150.000	
	NATIONAL	CANADA	155.000	50.000	Ontario
	NATIONAL	IRELAND	470.000	150.000	
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	474.000	150.000	
	NATIONAL	NEW ZEALAND	474.000	150.000	
	NATIONAL	NEW ZEALAND	10.000		Particulates only
	NATIONAL	LATVIA	7.000		
	NATIONAL	LITHUANIA	7.000		
	NATIONAL	NORWAY	79.000	25.000	
	NATIONAL	POLAND	100.000		
	NATIONAL	RUSSIAN FEDERATION		7.000	
	NATIONAL	SOUTH AFRICA	470.000	150.000	Total particulate and vapour
	NATIONAL	SOUTH AFRICA	10.000		Particulate

Barium sulfate	NATIONAL	AUSTRALIA	10.000		
	NATIONAL	BELGIUM	5.000		Without asbestos fibers and <1% crystalline silica
	NATIONAL	CANADA	5.000		Ontario; This value is for particulate matter containing no asbestos and <1% crystalline silica
	NATIONAL	CANADA	10.000		Quebec
	NATIONAL	GERMANY	0.300	2.400	DFG; Multiplied by the density of the material; Long term and short term: respirable fraction
	NATIONAL	GERMANY	4.000		DFG; Inhalable fraction
	NATIONAL	IRELAND	2.000		Respirable fraction
	NATIONAL	LATVIA	6.000		
	NATIONAL	NEW ZEALAND	10.000		
	NATIONAL	CHINA	10.000		
	NATIONAL	CHINA	5.000		Inhalable fraction; barite
	NATIONAL	SINGAPORE	10.000		
	NATIONAL	SPAIN	10.000		Inhalable aerosol
	NATIONAL	UNITED STATES OF AMERICA	10.000		NIOSH; total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000		NIOSH; respirable fraction
	NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; inhalable fraction
	NATIONAL	UNITED STATES OF AMERICA	5.000		OSHA; respirable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000		Respirable aerosol
	ACGIH	NNN	5		(I, E) - Pneumoconiosis
Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated	NATIONAL	AUSTRIA	1000.000	4000.000	Long term and short term: INHALABLE FRACTION
	NATIONAL	DENMARK	1000.000	2000.000	
	NATIONAL	GERMANY	1000.000	8000.000	AGS; Long term and short term: inhalable aerosol
	NATIONAL	GERMANY	200.000	400.000	DFG; Long term and short term: inhalable aerosol
	NATIONAL	SWITZERLAND		1000.000	
	NATIONAL	RUSSIAN FEDERATIO		10.000	

		N			
Carbon black	NATIONAL	SLOVAKIA	100.000		
	NATIONAL	AUSTRALIA	3.000		
	NATIONAL	BELGIUM	3.000		
	NATIONAL	CANADA	3.000		Ontario; Inhalable fraction
	NATIONAL	CANADA	3.500		Québec
	NATIONAL	DENMARK	3.500	7.000	
	NATIONAL	FINLAND	3.500	7.000	
	NATIONAL	FRANCE	3.500		
	NATIONAL	IRELAND	3.500	7.000	
	NATIONAL	ISRAEL	3.500		Inhalable fraction
	NATIONAL	JAPAN	1.000		JSOH; respirable dust
	NATIONAL	JAPAN	4.000		JSOH; total dust
	NATIONAL	NEW ZEALAND	3.000		
	NATIONAL	CHINA	4.000		Inhalable fraction
	NATIONAL	SINGAPORE	3.500		
	NATIONAL	KOREA, REPUBLIC OF	3.500		
	NATIONAL	SPAIN	3.500		
	NATIONAL	SWEDEN	3.000		
	NATIONAL	UNITED STATES OF AMERICA	3.500		NIOSH; in presence of PAHs: limit PAHs to 0,1 mg/m³ TWA (detected as cyclohexane soluble extract)
	NATIONAL	UNITED STATES OF AMERICA	3.500		OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	3.500	7.000	
	NATIONAL	ITALY	3.000		
	NATIONAL	ARGENTINA	3.500		
	NATIONAL	CHILE	3.100		
	NATIONAL	CROATIA	3.500	7.000	
	NATIONAL	GREECE	3.500	7.000	
	NATIONAL	INDONESIA	3.500		
	NATIONAL	ICELAND	3.500		
	NATIONAL	MALAYSIA	3.500		
	NATIONAL	MEXICO	3.000		
	NATIONAL	NORWAY	3.500		
	NATIONAL	PORTUGAL	3.000		
	NATIONAL	SOUTH AFRICA	3.500	7.000	
	NATIONAL	TAIWAN, PROVINCE OF CHINA	3.500		
zinc oxide	ACGIH	NNN	3		(I), A3 - Bronchitis
	NATIONAL	AUSTRALIA	10.000		This value is for inhalable dust containing no asbestos and < 1% crystalline silica
	NATIONAL	AUSTRALIA	10.000	5.000	Long term and short term:

				Fume
NATIONAL	BELGIUM	10.000		
NATIONAL	CANADA	2.000	10.000	Ontario; Long term and short term: respirable aerosol
NATIONAL	CANADA	10.000		Quebec
NATIONAL	FRANCE	10.000		
NATIONAL	JAPAN	1.000		Respirable dust
NATIONAL	JAPAN	4.000		Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler
NATIONAL	LATVIA	0.500		
NATIONAL	NEW ZEALAND	10.000	10.000	
NATIONAL	CHINA	3.000	5.000	
NATIONAL	SINGAPORE	10.000		
NATIONAL	SPAIN	10.000		
NATIONAL	SWEDEN	5.000		
NATIONAL	SWITZERLAND	3.000	3.000	Long term and short term: respirable fraction
NATIONAL	UNITED STATES OF AMERICA	15.000	5.000	Total dust
NATIONAL	ITALY	2.000	10.000	
NATIONAL	ARGENTINA	5.000	10.000	Long term and short term: fume
NATIONAL	ARGENTINA	10.000		Dust
NATIONAL	AUSTRIA	5.000		
NATIONAL	BULGARIA	5.000	10.000	
NATIONAL	CZECHIA	2.000	5.000	
NATIONAL	CHILE	10.000	4.400	
NATIONAL	KOREA, REPUBLIC OF	5.000	10.000	
NATIONAL	CROATIA	2.000	10.000	Long term: respirable dust
NATIONAL	DENMARK	4.000		
NATIONAL	ESTONIA	5.000		
NATIONAL	FINLAND	2.000	10.000	
NATIONAL	GREECE	5.000	10.000	
NATIONAL	INDONESIA	2.000	10.000	
NATIONAL	IRELAND	2.000	10.000	Long term: respirable fraction
NATIONAL	LITHUANIA	5.000		
NATIONAL	MALAYSIA	5.000	10.000	
NATIONAL	NORWAY	5.000		
NATIONAL	POLAND	5.000	10.000	
NATIONAL	PORTUGAL	2.000	10.000	
NATIONAL	ROMANIA	5.000	10.000	
NATIONAL	RUSSIAN FEDERATION	0.500	1.500	
NATIONAL	SOUTH AFRICA	5.000	10.000	
NATIONAL	TAIWAN, PROVINCE OF CHINA	5.000		

sodium hydroxide; caustic soda	NATIONAL	HUNGARY		5.000	20.000	
	ACGIH	NNN		2	10	(R) - Metal fume fever
	NATIONAL	AUSTRALIA	C		2	
	NATIONAL	AUSTRIA		2.000	4.000	Long term and short term: inhalable aerosol
	NATIONAL	BELGIUM		2.000		
	NATIONAL	CANADA	C		2.000	Ontario
	NATIONAL	CANADA	C		2.000	Quebec
	NATIONAL	DENMARK		2.000	2.000	
	NATIONAL	FINLAND	C		2.000	
	NATIONAL	FRANCE		2.000		
2-methylisothiazol- 3(2H)-one	NATIONAL	HUNGARY		2.000	2.000	
	NATIONAL	IRELAND			2.000	
	NATIONAL	JAPAN	C	2.000		JSOH; Reference value to the maximal exposure concentration of the substance during a working day
	NATIONAL	LATVIA		0.500		
	NATIONAL	NEW ZEALAND	C		2.000	
	NATIONAL	CHINA	C		2.000	
	NATIONAL	POLAND		0.500	1.000	
	NATIONAL	ROMANIA		1.000	3.000	
	NATIONAL	SINGAPORE			2.000	
	NATIONAL	KOREA, REPUBLIC OF	C		2.000	
	NATIONAL	SPAIN		2.000		
	NATIONAL	SWEDEN		1.000	1.000	Long term and short term: inhalable fraction
	NATIONAL	SWITZERLA ND		2.000	2.000	long term and short term: inhalable fraction
	NATIONAL	UNITED STATES OF AMERICA	C		2.000	NIOSH
	NATIONAL	UNITED STATES OF AMERICA	C	2.000		OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND			2.000	
	NATIONAL	BULGARIA		2.000		
	NATIONAL	CZECHIA		1.000	2.000	
	NATIONAL	ESTONIA		1.000	2.000	
	NATIONAL	GREECE		2.000	2.000	
	NATIONAL	SLOVAKIA		2.000		
	NATIONAL	SLOVENIA		2.000		
	NATIONAL	TAIWAN, PROVINCE OF CHINA		2.000		
	ACGIH	NNN	C		2	URT, eye, and skin irr
	NATIONAL	AUSTRIA		0.050		

diuron (ISO); 3-(3,4-dichlorophenyl)-1,1-dimethylurea	NATIONAL	GERMANY	0.200	0.400	DFG; long term: inhalable fraction
	NATIONAL	SWITZERLAND	0.100	0.400	Long term and short term: inhalable fraction
	NATIONAL	SLOVENIA	0.050		
	NATIONAL	AUSTRALIA	10		
	NATIONAL	AUSTRIA	5.000	10.000	Long Term and Short term: inhalable aerosol
	NATIONAL	BELGIUM	10.000		
	NATIONAL	CANADA	10.000		Canada-Ontario
	NATIONAL	CANADA	10.000		Canada-Quebec
	NATIONAL	DENMARK	5.000	10.000	
	NATIONAL	FINLAND	10.000	20.000	
	NATIONAL	FRANCE	10.000		
	NATIONAL	IRELAND	10.000		
	NATIONAL	NEW ZEALAND	10.000		
	NATIONAL	CHINA	10.000		
	NATIONAL	SINGAPORE	10.000		
	NATIONAL	KOREA, REPUBLIC OF	10.000		
	NATIONAL	SPAIN	10.000		
	NATIONAL	SWITZERLAND	10.000		inhalable aerosol
	NATIONAL	UNITED STATES OF AMERICA	10.000		
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		
	NATIONAL	ITALY	10.000		
	NATIONAL	CHILE	8.800		
	NATIONAL	MALAYSIA	10.000		
	NATIONAL	PORTUGAL	10.000		
	NATIONAL	ARGENTINA	10.000		
	NATIONAL	GREECE	10.000		
	NATIONAL	NORWAY	5.000		
	NATIONAL	SLOVENIA	5.000		
	ACGIH	NNN	10		A4 - URT irr
	NATIONAL	AUSTRIA	0.050	0.050	Long term and short term: inhalable aerosol
octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	NATIONAL	GERMANY	0.050	0.100	AGS; Long term and short term: inhalable aerosol
	NATIONAL	GERMANY	0.050	0.100	DFG: Long term and short term: inhalable aerosol
	NATIONAL	SWITZERLAND	0.050	0.100	Long term and short term: inhalable aerosol
	NATIONAL	SLOVENIA	0.050	0.100	Long term and short term: inhalable fraction

3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate	NATIONAL	GERMANY	0.058	0.005	0.116	0.010	AGS; long term and short term: inhalable fraction and vapour
	NATIONAL	GERMANY	0.058	0.005	0.116	0.010	DFG
	NATIONAL	SWITZERLAND	0.120	0.010	0.240	0.020	
glyoxal...%; ethandial...%	NATIONAL	SLOVENIA	0.120	0.010	0.240	0.020	Inhalable fraction and vapour
	NATIONAL	BELGIUM	0.1				
	NATIONAL	CANADA	0.100				Ontario: inhalable aerosol and vapour
	NATIONAL	DENMARK	0.500	0.200	0.500	0.200	
	NATIONAL	FINLAND	0.020				(IFV), DSEN, A4 - URT irr, larynx metaplasia
	NATIONAL	SPAIN	0.100				
	NATIONAL	ITALY	0.100				
	NATIONAL	ARGENTINA	0.100				
	NATIONAL	MEXICO	0.100				
	NATIONAL	UNITED STATES OF AMERICA	0.100				
	NATIONAL	PORTUGAL	0.100				
	ACGIH	NNN	0.1				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	NATIONAL	AUSTRIA	0.050				DFG; Long term and short term: inhalable fraction
	NATIONAL	GERMANY	0.200		0.400		
	NATIONAL	SWITZERLAND	0.200		0.400		Inhalable fraction
	NATIONAL	KOREA, REPUBLIC OF	0.100				
	NATIONAL	NETHERLANDS	0.200				
2-amino-2-methylpropanol	NATIONAL	GERMANY	3.700	1.000	7.400	2.000	AGS; Long term and short term: inhalable fraction and vapour
	NATIONAL	GERMANY	3.700	1.000	7.400	2.000	DFG; Long term and short term: inhalable fraction and vapour
	NATIONAL	SWITZERLAND	8.700	2.400	17.400	4.800	
Kaolin	NATIONAL	SLOVENIA	3.700	1.000	17.400	4.800	This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
	NATIONAL	AUSTRALIA	10.000				
	NATIONAL	BELGIUM	2.000				Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and <1 percent crystalline silica.
	NATIONAL	CANADA	2.000				
	NATIONAL	CANADA	5.000				Canada Québec
	NATIONAL	DENMARK	2.000		4.000		Respirable aerosol

dimethyl sulfoxide	NATIONAL	FINLAND	2.000					Respirable fraction
	NATIONAL	FRANCE	10.000					Respirable aerosol
	NATIONAL	IRELAND	2.000					
	NATIONAL	NEW ZEALAND	10.000					Inhalable aerosol
	NATIONAL	NEW ZEALAND	2.000					Respirable aerosol
	NATIONAL	SWITZERLAND	3.000					Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA	15.000					OSHA: Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000					OSHA: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	10.000					NIOSH: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	5.000					NIOSH: Respirable fraction
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2.000					Respirable aerosol
	ACGIH	NNN	2					(E,R), A4 - Pneumoconiosis
	NATIONAL	AUSTRIA	160.000	50.000				
	NATIONAL	DENMARK	160.000	50.000	320.000	100.000		
	NATIONAL	FINLAND		50.000				
	NATIONAL	GERMANY	160.000	50.000	320.000	100.000	AGS	
	NATIONAL	GERMANY	160.000	50.000	320.000	100.000	DFG	
	NATIONAL	SWEDEN	150.000	50.000	500.000	150.000		
	NATIONAL	SWITZERLAND	160.000	50.000	320.000	100.000		
	NATIONAL	AUSTRIA	160.000	50.000				
	NATIONAL	ESTONIA	150.000	50.000	500.000	150.000		
	NATIONAL	LITHUANIA	150.000	50.000	500.000	150.000		
	NATIONAL	RUSSIAN FEDERATION			20.000			
	NATIONAL	SLOVENIA	160.000	50.000	320.000	100.000		
	NATIONAL	UNITED STATES OF AMERICA		250.000				

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
(Z)-9-octadecen-1-ol ethoxylated	9004-98-2	1.900 µg/l	Freshwater	
		100.000 µg/l	Intermittent releases (freshwater)	
		1.900 µg/l	Marine water	
		10.000 mg/l	Microorganisms in sewage treatments	
		86.900 mg/kg	Freshwater sediments	

bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	52-51-7	86.900 mg/kg	Marine water sediments
		1.000 mg/kg	Soil
		10.000 µg/l	Freshwater
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	2634-33-5	2.500 µg/l	Intermittent releases (freshwater)
		800.000 ng/L	Marine water
		430.000 µg/l	Microorganisms in sewage treatments
		41.000 µg/l	Freshwater sediments
		3.280 µg/kg	Marine water sediments
		500.000 µg/kg	Soil
		4.030 µg/l	Freshwater
		1.100 µg/l	Intermittent releases (freshwater)
		403.000 ng/L	Marine water
		110.000 ng/L	Intermittent releases (marine water)
2-methylisothiazol-3(2H)-one	2682-20-4	1.030 mg/l	Microorganisms in sewage treatments
		49.900 µg/kg	Freshwater sediments
		4.990 µg/kg	Marine water sediments
		3.000 mg/kg	Soil
		3.390 µg/l	Freshwater
		3.390 µg/l	Intermittent releases (freshwater)
		3.390 µg/l	Marine water
		3.390 µg/l	Intermittent releases (marine water)
		230.000 µg/l	Microorganisms in sewage treatments
		47.100 µg/kg	Soil
Pyrrithione zinc	13463-41-7	90.000 ng/L	Freshwater
		90.000 ng/L	Marine water
		10.000 µg/l	Microorganisms in sewage treatments
		9.500 µg/kg	Freshwater sediments
		9.500 µg/kg	Marine water sediments
		1.020 mg/kg	Soil
		2.200 µg/l	Freshwater
		1.220 µg/l	Intermittent releases (freshwater)
		220.000 ng/L	Marine water
		122.000 ng/L	Intermittent releases (marine water)
octhiline (ISO); 2-octyl-2H-isothiazol-3-one	26530-20-1	47.500 µg/kg	Freshwater sediments
		47.500 µg/kg	Marine water sediments
		8.200 µg/kg	Soil
		3.390 µg/l	Freshwater
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-	55965-84-9	3.390 µg/l	Freshwater

methyl-2H-isothiazol-3-one (3:1)

3.390 µg/l	Intermittent releases (freshwater)
3.390 µg/l	Marine water
3.390 µg/l	Intermittent releases (marine water)
230.000 µg/l	Microorganisms in sewage treatments
27.000 µg/l	Freshwater sediments
27.000 µg/l	Marine water sediments
10.000 µg/l	Soil

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
(Z)-9-octadecen-1-ol ethoxylated	9004-98-2		294.000 mg/m ³	87.000 mg/m ³	Human Inhalation	Long Term, systemic effects
			2080.000 mg/kg	1250.000 mg/kg	Human Dermal	Long Term, systemic effects
				25.000 mg/kg	Human Oral	Long Term, systemic effects
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	52-51-7		4.100 mg/m ³	1.200 mg/m ³	Human Inhalation	Long Term, systemic effects
			12.300 mg/m ³		Human Inhalation	Short Term, systemic effects
			4.200 mg/m ³	1.300 mg/m ³	Human Inhalation	Long Term, local effects
			4.200 mg/m ³	1.300 mg/m ³	Human Inhalation	Short Term, local effects
			2.300 mg/kg	1.400 mg/kg	Human Dermal	Long Term, systemic effects
			7.000 mg/kg		Human Dermal	Short Term, systemic effects
				350.000 µg/kg	Human Oral	Long Term, systemic effects
				1.100 mg/kg	Human Oral	Short Term, systemic effects
			0.013 mg/cm ²	0.008 mg/cm ²	Human Dermal	Long Term, local effects
			0.013 mg/cm ²	0.008 mg/cm ²	Human Dermal	Short Term, local effects
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	2634-33-5		6.810 mg/m ³	1.200 mg/m ³	Human Inhalation	Long Term, systemic effects
			966.000 µg/kg	345.000 µg/kg	Human Dermal	Long Term, systemic effects
2-methylisothiazol-3(2H)-one	2682-20-4		21.000 µg/m ³	21.000 µg/m ³	Human Inhalation	Long Term, local effects
			43.000 µg/m ³	43.000 µg/m ³	Human Inhalation	Short Term, local effects
				27.000 µg/kg	Human Oral	Long Term, systemic effects
				53.000 µg/kg	Human Oral	Short Term, systemic effects

Pyrithione zinc	13463-41-7	10.000 µg/kg		Human Dermal	Long Term, systemic effects
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	20.000 µg/m ³	20.000 µg/m ³	Human Inhalation	Long Term, local effects
		40.000 µg/m ³	20.000 µg/m ³	Human Inhalation	Short Term, local effects
			90.000 µg/kg	Human Oral	Long Term, systemic effects
			110.000 µg/kg	Human Oral	Short Term, systemic effects

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Color: In compliance with the product description

Odour: Light

Odour threshold: N.A.

pH: Not Relevant

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: > 100 °C (212 °F)

Flash point: > 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.62 g/cm³

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 1.02 % ; 16.49 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Quartz	a) acute toxicity	LD50 Oral > 2000.00000 mg/kg
(Z)-9-octadecen-1-ol ethoxylated	a) acute toxicity	LD50 Oral Rat > 21000.00000 mg/kg
		LC50 Inhalation Vapour Rat > 100.00000 mg/m ³ 6h
		LD50 Skin Rabbit = 2000.00000 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit No 72h
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Negative
	g) reproductive toxicity	No Observed Adverse Effect Level Skin Rat >= 250.00000 mg/kg
bronopol (INN); 2-bromo- 2-nitropropane-1,3-diol	a) acute toxicity	LD50 Oral Rat = 305.00 mg/kg
		LC50 Inhalation of aerosol Rat >= 0.59 mg/l 4h
		LD50 Skin Rat > 2000.00000 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes

	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Negative	
	f) carcinogenicity	Genotoxicity Negative Carcinogenicity Oral Rat Negative	Mouse oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat 200.00000	
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	a) acute toxicity	LD50 Oral Rat = 670.00000 mg/kg	
		LD50 Skin Rat > 2000.00000 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Corrosive Positive	irreversible damage
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Positive	
	f) carcinogenicity	Genotoxicity Rat Negative	Oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 112.00000 mg/kg	
2-methylisothiazol-3(2H)-one	a) acute toxicity	LC50 Inhalation of aerosol Rat = 0.10000 mg/l 4h	
		LD50 Oral Rat = 120.00000 mg/kg	
		LD50 Skin Rat = 242.00000 mg/kg 24h	
	b) skin corrosion/irritation	Skin Corrosive Rabbit Positive 4h	
	c) serious eye damage/irritation	Eye Corrosive Rabbit Positive	
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Positive	
	f) carcinogenicity	Genotoxicity Rat Negative Carcinogenicity Oral Rat Negative	Oral route
	g) reproductive toxicity	Reproductive Toxicity Oral Rat = 200.00000 Ppm	NOAEL
Pyrithione zinc	a) acute toxicity	ATE - Oral : 221 mg/kg bw LD50 Oral Rat = 269.00000 mg/kg LC50 Inhalation Rat = 1.03000 mg/l 4h LD50 Skin Rat > 2000.00000 mg/kg 24h	14 days
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Negative	
	f) carcinogenicity	Genotoxicity Negative Carcinogenicity Oral Rat = 0.50000 mg/kg Carcinogenicity Skin = 5.00000 mg/kg	NOAEL NOAEL; mouse
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 1.40000 mg/kg	
octhiline (ISO); 2-octyl-2H-isothiazol-3-one	a) acute toxicity	ATE - Oral : 125 mg/kg bw	
		ATE - Dermal : 311 mg/kg bw	
		LD50 Oral Rat = 500.00 mg/kg	
		LC50 Inhalation Rat = 0.78 mg/l 4h	
		LD50 Skin Rat = 311.00000 mg/kg	

b) skin corrosion/irritation	Skin Irritant Rabbit Positive
c) serious eye damage/irritation	Eye Irritant Rabbit Yes
d) respiratory or skin sensitisation	Skin Sensitization Guinea pig Positive

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

a) acute toxicity	LD50 Oral Rat = 69.00 mg/kg
	LD50 Skin Rabbit = 141.00 mg/kg
	LC50 Inhalation Rat = 0.33 mg/l 4h
b) skin corrosion/irritation	Skin Irritant Rabbit Positive
c) serious eye damage/irritation	Eye Corrosive Rabbit Positive
d) respiratory or skin sensitisation	Skin Sensitization Positive
f) carcinogenicity	Genotoxicity Negative
	Carcinogenicity Skin Negative
g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 22.70000 mg/kg

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
(Z)-9-octadecen-1-ol ethoxylated	CAS: 9004-98-2 - EINECS: 500-016-2	a) Aquatic acute toxicity : LC50 Fish Danio rerio = 108.00000 mg/L 96h ECHA a) Aquatic acute toxicity : EL50 Daphnia Daphnia magna = 51.00000 mg/L 48h OECD 202 b) Aquatic chronic toxicity : EC20 Daphnia Daphnia magna = 0.04800 mg/L USEPA-TSCA - Duration 21d a) Aquatic acute toxicity : EL50 Algae Pseudokirchneriella subcapitata > 10.00000 mg/L 72h OECD 201 a) Aquatic acute toxicity : EC50 Sludge sewage sludge > 1000.00000 mg/L 3h OECD guideline 209 b) Aquatic chronic toxicity : EC20 Fish Pimephales promelas = 0.24900 mg/L d) Terrestrial toxicity : LC50 Worm Eisenia fetida > 1000.00000 mg/kg OECD 207 e) Plant toxicity : NOEC Lepidum sativum, Brassica alba and Triticum aestivum = 100.00000 mg/kg OECD 208
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	CAS: 52-51-7 - EINECS: 200-143-0 - INDEX: 603-085-00-8	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 37.50000 mg/L 96h US EPA Guideline OPP 72 -1

		b) Aquatic chronic toxicity : NOEC Fish <i>Oncorhynchus mykiss</i> = 21.50000 mg/L OECD guideline 210 - 49days a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> = 1.40000 mg/L 48h OECD guideline 202 b) Aquatic chronic toxicity : NOEC <i>Daphnia magna</i> = 0.27000 mg/L OECD guideline 202 - 21days a) Aquatic acute toxicity : NOEC Algae <i>Skeletonema costatum</i> = 0.08000 mg/L 72h ISO 10253 a) Aquatic acute toxicity : EC20 Sludge activated sludge = 2.00000 mg/L OECD 209 d) Terrestrial toxicity : LC50 Worm <i>Eisenia foetida</i> > 500.00000 mg/kg OECD 207 d) Terrestrial toxicity : EC50 soil microorganisms = 679.00000 mg/kg OECD guideline 216 - 28days
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6	a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 2.15000 mg/L 96h OECD Guideline 203 a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> = 2.90000 mg/L 48h OECD Guideline 202 a) Aquatic acute toxicity : EC50 Algae green alga <i>Selenastrum capricornutum</i> freshwater algae = 110.00000 µg/L OECD Guideline 201 d) Terrestrial toxicity : EC50 Worm <i>Eisenia fetida</i> > 410.60000 mg/kg OECD Guideline 207 - Duration 14d d) Terrestrial toxicity : EC10 soil microorganisms = 263.70000 mg/kg - long term a) Aquatic acute toxicity : NOEC Sludge activated sludge 10.30000 mg/L 3h OECD Guideline 209 e) Plant toxicity : LC50 <i>Triticum aestivum</i> = 200.00000 mg/kg OECD Guideline 208
2-methylisothiazol-3(2H)-one	CAS: 2682-20-4 - EINECS: 220-239-6 - INDEX: 613-326-00-9	a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 4.77000 mg/L 96h „OECD Guideline 203 (Fish, Acute Toxicity Test) b) Aquatic chronic toxicity : NOEC Fish <i>Oncorhynchus mykiss</i> = 4.93000 mg/L Dossier ECHA a) Aquatic acute toxicity : LC50 <i>Daphnia magna</i> = 0.93400 mg/L 48h OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test) b) Aquatic chronic toxicity : EC10 <i>Daphnia magna</i> = 0.04400 mg/L OECD Guideline 211 (<i>Daphnia magna</i> Reproduction Test) - Duration 21d a) Aquatic acute toxicity : EC50 Algae <i>Selenastrum capricornutum</i> = 0.10300 mg/L 72h Dossier ECHA a) Aquatic acute toxicity : EC50 Sludge activated sludge of a predominantly domestic sewage = 41.00000 mg/L 3h „OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) b) Aquatic chronic toxicity : EC50 freshwater sediment = 50.00000 mg/kg Duration 28d Draft OECD Guideline (now OECD Guideline 225) - 28days
Pyrithione zinc	CAS: 13463-41-7 - EINECS: 236-671-3 - INDEX: 613-333-00-7	a) Aquatic acute toxicity : LC50 Fish <i>Pimephales promelas</i> = 2.60000 µg/L 96h US EPA-72-1 a) Aquatic acute toxicity : LC50 <i>Daphnia magna</i> = 8.20000 µg/L US EPA-72-2 a) Aquatic acute toxicity : EC50 Algae <i>Navicula pelliculosa</i> = 3.00000 µg/L dossier ECHA

b) Aquatic chronic toxicity : NOEC Fish Pimephales promelas = 1.22000 µg/L „OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 28days

b) Aquatic chronic toxicity : EC50 Lemna gibba = 9.60000 µg/L EPA OPPTS 850.4400 (Aquatic Plant Toxicity Test using Lemna spp. Tiers I & II))

d) Terrestrial toxicity : LC50 Folsomia candida = 822.00000 mg/kg ISO 11267 (Inhibition of Reproduction of Collembola by Soil Pollutants)

e) Plant toxicity : NOEC Tomato, Cucumber, Lettuce, Soybean, Cabbage, Carrot, Oat > 0.49000 µg/L USEPA OPPTS 850.4100

d) Terrestrial toxicity : LC50 Avian Northern Bobwhite = 60.00000 mg/kg EPA FIFRA Guideline 71-1 - 14days

d) Terrestrial toxicity : NOEC Avian Northern Bobwhite = 31.20000 mg/kg EPA FIFRA Guideline 71-1 - 14days

octhiline (ISO); 2-octyl-2H-isothiazol-3-one

CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112-00-5

a) Aquatic acute toxicity : LC50 Fish freshwater fish = 0.12200 mg/L dossier ECHA

b) Aquatic chronic toxicity : EC10 Fish = 0.02200 mg/L dossier ECHA

a) Aquatic acute toxicity : EC50 freshwater invertebrates = 0.18100 mg/L dossier ECHA

b) Aquatic chronic toxicity : EC10 freshwater invertebrates = 0.03500 mg/L dossier ECHA

LC50 Algae freshwater algae = 0.15000 mg/L

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS: 55965-84-9 - INDEX: 613-167-00-5

a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 0.19000 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test)

b) Aquatic chronic toxicity : NOEC Fish Danio rerio = 0.02000 mg/L „OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days

a) Aquatic acute toxicity : LC50 Daphnia magna = 0.16000 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

b) Aquatic chronic toxicity : NOEC Daphnia magna = 0.10000 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) - 21days

a) Aquatic acute toxicity : EC50 Algae Skeletonema costatum = 0.00 mg/L 96h „OECD Guideline 201 (Alga, Growth Inhibition Test)

a) Aquatic acute toxicity : EC50 Sludge activated sludge = 4.50000 mg/L 3h „OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 613.00000 mg/kg „OECD Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days

e) Plant toxicity : NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000.00000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days

12.2. Persistence and degradability

Component	Persistence/Degradability:	Test	Value	Notes
(Z)-9-octadecen-1-ol ethoxylated	Readily biodegradable	CO2 production	83.600	in 28 days (OECD 301B)
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	Readily biodegradable			OECD guideline 301B
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Non-readily biodegradable	CO2 production		OECD Guideline 301C
2-methylisothiazol-3(2H)-one	Non-readily biodegradable	CO2 production		OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Pyrethrin zinc	Non-readily biodegradable	CO2 production		OECD 301B CO2evolution
octhiline (ISO); 2-octyl-2H-isothiazol-3-one	Non-readily biodegradable			

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Non-readily biodegradable

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	Bioaccumulative	BCF - Bioconcentration factor		
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Bioaccumulative	BCF - Bioconcentration factor	6.620	
2-methylisothiazol-3(2H)-one	Bioaccumulative	BCF - Bioconcentration factor	5.750	carcass
	Bioaccumulative	BCF - Bioconcentration factor	48.100	viscera
Pyrrithione zinc	Bioaccumulative	BCF - Bioconcentration factor	1.400	
octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	Bioaccumulative	BCF - Bioconcentration factor	19.210	L/kg ww
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Bioaccumulative	BCF - Bioconcentration factor	54.000	≤ 54

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

HP 13: Sensitising; The liquid mixture, due to hardening or exposure to heat, loses its original technical characteristics and appears in a solid state upon disposal; in this case, employees must comply with the requirements of national legislation about safety in the workplace.

In particular, employees must take appropriate technical measures when handling the product, such as proceed with local ventilation and use airtight containers to limit dust dispersion; they must as well wear a respirator with P3 filter.

SECTION 14: Transport information

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

ADR Limited Quantities: N/A

ADR Excepted Quantities: N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG) :

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisioning: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 70, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) 649/2012 (PIC regulation):

No Substance Listed

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

No data available

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 1.02 %

Volatile Organic compounds - VOCs = 16.49 g/L

REGULATION (EU) No 528/2012

The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments.

Substances included in Regulation (EU) n. 528/2012 (concerning the making available on the market and use of biocidal products):

Nomenclature IUPAC: Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Nomenclature BPR: C(M)IT/MIT (3:1)

CAS number: 55965-84-9

Product-type 6: Preservatives for products during storage

Assessment status: Approved

Commission Implementing Regulation (EU) 2016/131

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

[CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
---	--------------------------

3.4.2/1A	Calculation method
4.1/C3	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic
 COD: Chemical Oxygen Demand
 COV: Volatile Organic Compound
 CSA: Chemical Safety Assessment
 CSR: Chemical Safety Report
 DMEL: Derived Minimal Effect Level
 DNEL: Derived No Effect Level.
 DPD: Dangerous Preparations Directive
 DSD: Dangerous Substances Directive
 EC50: Half Maximal Effective Concentration
 ECHA: European Chemicals Agency
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 ES: Exposure Scenario
 GefStoffVO: Ordinance on Hazardous Substances, Germany.
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association.
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 IC50: half maximal inhibitory concentration
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
 IMDG: International Maritime Code for Dangerous Goods.
 INCI: International Nomenclature of Cosmetic Ingredients.
 IRCCS: Scientific Institute for Research, Hospitalization and Health Care
 KAFH: Keep Away From Heat
 KSt: Explosion coefficient.
 LC50: Lethal concentration, for 50 percent of test population.
 LD50: Lethal dose, for 50 percent of test population.
 LDLo: Leathal Dose Low
 N.A.: Not Applicable
 N/A: Not Applicable
 N/D: Not defined/ Not available
 NA: Not available
 NIOSH: National Institute for Occupational Safety and Health
 NOAEL: No Observed Adverse Effect Level
 OSHA: Occupational Safety and Health Administration.
 PBT: Persistent, Bioaccumulative and Toxic
 PGK: Packaging Instruction
 PNEC: Predicted No Effect Concentration.
 PSG: Passengers
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
 STEL: Short Term Exposure limit.
 STOT: Specific Target Organ Toxicity.
 TLV: Threshold Limiting Value.
 TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
 vPvB: Very Persistent, Very Bioaccumulative.
 WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION