

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 20/06/2022 Revision date: 28/07/2022 Supersedes version of: 20/06/2022 Version: 2.0

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

1.1. Product identifier

Product form : Mixture

Trade name : RailArmor® EP 2

Product group : Mixtures

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor Manufacturer

Whitmore Europe Limited Whitmore

930 Whitmore Drive Unit 9

75087 Rockwall, Texas Foster Avenue, Woodside Park Industrial Estate

Dunstable, Bedfordshire, LU5 5TA USA

T 1.972.771.1000 United Kingdom Regulatory@whitmores.com - www.whitmores.com T +44 1707 379870

Regulatory@whitmores.com - www.whitmores.com

1.4. Emergency telephone number

: For Chemical Emergency Call CHEMTREC 24hr/day 7days/week **Emergency number**

Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1.703.527.3887

(collect calls accepted)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	Chemtrec - United Kingdom	London	Local (City) +44 20 3807 3798	
United Kingdom	Chemtrec - United Kingdom		Local (National) +44 870 820 0418	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

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2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component		
chalk (1317-65-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt (4259-15-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
graphite (7782-42-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy naphthenic (Note L)	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7	42.750011	Not classified
Resin	CAS-No.: 64742-16-1 EC-No.: 265-116-8	2.82	Not classified
chalk substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	> 1.787128	Not classified
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No.: 4259-15-8 EC-No.: 224-235-5	≤ 1.175	Eye Dam. 1, H318 Aquatic Chronic 2, H411
graphite substance with national workplace exposure limit(s) (GB)	CAS-No.: 7782-42-5 EC-No.: 231-955-3	0.47	Aquatic Chronic 2, H411
POLYETHYLENE substance with national workplace exposure limit(s) (GB)	CAS-No.: 9002-88-4	0.3687	Not classified
quartz, 1%≤conc respirable crystalline silica<10% substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	≤ 0.0376	Not classified
distillates (petroleum), hydrotreated heavy paraffinic (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8		Not classified
naphtha,heavy aromatic (Note H)	CAS-No.: 64742-94-5 EC-No.: 265-198-5 EC Index-No.: 649-424-00-3		Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Note H: The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Resin (64742-16-1)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³
chalk (1317-65-3)	
United Kingdom - Occupational Exposure Limits	
Local name Calcium carbonate (Limestone, Marble)	
WEL TWA (OEL TWA) [1]	10 mg/m³ total inhalable 4 mg/m³ respirable

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chalk (1317-65-3)		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Silica crystaline (Quartz)	
IOEL TWA	0.05 mg/m³ (respirable dust)	
Remark	(Year of adoption 2003)	
Regulatory reference	SCOEL Recommendations	
United Kingdom - Occupational Exposure Limits		
Local name	Silica	
WEL TWA (OEL TWA) [1]	0.1 mg/m³ respirable crystalline	
Regulatory reference	EH40/2005 (Third edition, 2018). HSE	
POLYETHYLENE (9002-88-4)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³	
graphite (7782-42-5)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Neoprene or nitrile rubber gloves

Type Material Permeation Thickness (mm) Penetration Standard			Standard		
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm		

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8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : Grey.
Appearance : Grease.

Odour : petroleum-like odour.

Odour threshold : Not available Melting point : Not available : Not applicable Freezing point : Not available Boiling point Flammability : Non flammable. **Explosive limits** : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available : Not available рΗ pH solution : Not available : 694 mm²/s @ 40 °C Viscosity, kinematic : insoluble in water.

Solubility Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : Not available Relative density : Not available Relative vapour density at 20 °C : Not applicable Particle size : Not available Particle size distribution : Not available Particle shape : Not available : Not available Particle aspect ratio Particle aggregation state : Not available Particle agglomeration state : Not available Particle specific surface area : Not available

9.2. Other information

Particle dustiness

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : < 0.1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

: Not available

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1. Information on hazard classes as define	ned in Regulation (EC) No 1272/2008
A quita taxiaity (aral)	. Not aloogified

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Acute toxicity (inhalation)	: Not classified	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	alt (4259-15-8)	
LD50 oral rat	3100 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))	
chalk (1317-65-3)		
LD50 oral rat	6450 mg/kg (Rat, Literature study, Oral)	
LD50 dermal rabbit	> 2000 mg/kg	
POLYETHYLENE (9002-88-4)		
LD50 oral rat	> 2000 mg/kg (Rat, Oral)	
graphite (7782-42-5)		
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)	
LC50 Inhalation - Rat	> 2000 mg/m³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))	
LC50 Inhalation - Rat (Dust/Mist)	> 2 mg/l Source: ECHA	
distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)	
LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID	
LC50 Inhalation - Rat	> 25 mg/l/4h	
naphtha,heavy aromatic (64742-94-5)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:EPA Fed Reg Vol 50, No. 188 1985 and as amended in Fed Reg Vol 52, No. 97, 1987	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)	
LD50 dermal	3160 mg/kg	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)	

	,	
chalk (1317-65-3)		
рН	8.5 – 9	
quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)		
рН	5 – 8 (40 %, 20 °C)	
graphite (7782-42-5)		
pH	7 (1.3 %)	
Serious eye damage/irritation	: Causes serious eye irritation. (Based on available data, the classification criteria are not	

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met)

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chalk (1317-65-3)		
pH	8.5 – 9	
quartz, 1%≤conc respirable crystalline silica<		
pH	5 – 8 (40 %, 20 °C)	
graphite (7782-42-5)		
pH	7 (1.3 %)	
'	Not classified (Based on available data, the classification criteria are not met)	
	Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)	
quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)	
IARC group	1 - Carcinogenic to humans	
POLYETHYLENE (9002-88-4)		
IARC group	3 - Not classifiable	
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)	
naphtha,heavy aromatic (64742-94-5)		
NOAEL (animal/male, F0/P)	35 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:OPPTS 870.3650 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
NOAEL (animal/female, F0/P)	125 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:OPPTS 870.3650 Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test	
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)	
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	ılt (4259-15-8)	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
graphite (7782-42-5)		
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.000279 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)	
distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
naphtha,heavy aromatic (64742-94-5)		
LOAEC (inhalation, rat, vapour, 90 days)	4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)	
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)	
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)	
RailArmor® EP 2		
Viscosity, kinematic	694 mm²/s @ 40 °C	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	ılt (4259-15-8)	
Viscosity, kinematic	131.6 mm²/s (40 °C, ASTM D445: Capillary viscometer)	
chalk (1317-65-3)		
Viscosity, kinematic	Not applicable	

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naphtha,heavy aromatic (64742-94-5)		
Viscosity, kinematic 2.67 mm²/s		

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term

adverse effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

Not rapidly degradable	
Bis(2-ethylhexyl) phosphorodithioate Zinc	Salt (4259-15-8)
LC50 - Fish [1]	46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Semi-static system, Fresh water, Experimental value, GLP)
LC50 - Fish [2]	46 mg/l Test organisms (species):
chalk (1317-65-3)	
LC50 - Fish [1]	> 10000 mg/l (96 h, Oncorhynchus mykiss, Literature)
EC50 - Crustacea [1]	> 1000 mg/l (48 h, Daphnia magna, Literature)
EC50 72h - Algae [1]	> 200 mg/l (Desmodesmus subspicatus, Literature)
graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	19 mg/l
EC50 72h - Algae [2]	7.2 mg/l
ErC50 algae	> 100 mg/l
NOEC (chronic)	47 mg/l
distillates (petroleum), hydrotreated heavy	paraffinic (64742-54-7)
LC50 - Fish [1]	> 5000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID
naphtha,heavy aromatic (64742-94-5)	
LC50 - Fish [1]	6.1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	0.58 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.95 mg/l
EC50 - Crustacea [2]	0.76 mg/l Test organisms (species): Daphnia magna
12.2. Persistence and degradability	
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt (4259-15-8)	
Persistence and degradability	Not readily biodegradable in water.
Resin (64742-16-1)	
Persistence and degradability	Biodegradability in soil: no data available.

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chalk (1317-65-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
quartz, 1%≤conc respirable crystalline silica	<10% (14808-60-7)
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
POLYETHYLENE (9002-88-4)	
Persistence and degradability	Not degradable in the soil. Not readily biodegradable in water.
12.3. Bioaccumulative potential	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	alt (4259-15-8)
Partition coefficient n-octanol/water (Log Pow)	3.59 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Resin (64742-16-1)	
Bioaccumulative potential	Bioaccumulation unlikely.
quartz, 1%≤conc respirable crystalline silica⊲	<10% (14808-60-7)
Bioaccumulative potential	Bioaccumulation unlikely.
POLYETHYLENE (9002-88-4)	
Bioaccumulative potential	No bioaccumulation data available.
distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6 Source: IUCLID
naphtha,heavy aromatic (64742-94-5)	
Partition coefficient n-octanol/water (Log Pow)	2.9 – 6.1
12.4. Mobility in soil	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	alt (4259-15-8)
Surface tension	63.7 mN/m (21 °C, 1.25 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	Low potential for adsorption in soil.
chalk (1317-65-3)	
Ecology - soil	No (test) data on mobility of the substance available.
quartz, 1%≤conc respirable crystalline silica-	<10% (14808-60-7)
Ecology - soil	Low potential for mobility in soil.
12.5. Results of PBT and vPvB assessment No additional information available	
12.6. Endocrine disrupting properties No additional information available	
12.7. Other adverse effects No additional information available	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shippin	g name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard	class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental haz	ards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information	on available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

VOC Directive (2004/42)

VOC content : < 0.1 %

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Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other i	nformation		
Abbreviations and acr	Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H304	May be fatal if swallowed and enters airways.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.