

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 1
Product group : Trade product

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

Manufacturer Distributor

Whitmore Whitmore Europe Limited

930 Whitmore Drive Unit 9

75087 Rockwall, Texas Foster Avenue, Woodside Park Industrial Estate

USA Dunstable, Bedfordshire , LU5 5TA

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

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

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 Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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) : Warnir

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

H412 - Harmful to aquatic life with long lasting effects.

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

P273 - Avoid release to the environment.

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

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

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

: EUH208 - Contains 2,5-bis(octyldithio)-1,3,4-thiadiazole(13539-13-4). May produce an

allergic reaction.

2.3. Other hazards

EUH-statements

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	
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	
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	
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	
carbon black (1333-86-4)	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

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Resin substance with national workplace exposure limit(s) (GB)	CAS-No.: 64742-16-1 EC-No.: 265-116-8	8.1387125	Not classified
chalk substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	> 5.157005	Not classified
graphite substance with national workplace exposure limit(s) (GB)	CAS-No.: 7782-42-5 EC-No.: 231-955-3	≥ 2.6696397	Aquatic Chronic 2, H411
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No.: 4259-15-8 EC-No.: 224-235-5	≤ 1.875	Eye Dam. 1, H318 Aquatic Chronic 2, H411
POLYETHYLENE substance with national workplace exposure limit(s) (GB)	CAS-No.: 9002-88-4	0.6917725	Not classified
molybdenium(IV) sulfide substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-33-5 EC-No.: 215-263-9	> 0.59970735	Not classified
ethene/1-propene,polymer substance with national workplace exposure limit(s) (GB)	CAS-No.: 9010-79-1	0.538835	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	≤ 0.1278903	Not classified
carbon black substance with national workplace exposure limit(s) (GB)	CAS-No.: 1333-86-4 EC-No.: 215-609-9	0.0598975	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alkenyl amine	CAS-No.: Proprietary	0.0242985	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
2,5-bis(octyldithio)-1,3,4-thiadiazole	CAS-No.: 13539-13-4	0.0015 – 0.015	Skin Sens. 1A, H317

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

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

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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	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		
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		
ethene/1-propene,polymer (9010-79-1)			
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³		
molybdenium(IV) sulfide (1317-33-5)			
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	10 mg/m³		
WEL STEL (OEL STEL)	20 mg/m³		
carbon black (1333-86-4)			
United Kingdom - Occupational Exposure Limits			
Local name	Carbon black		
WEL TWA (OEL TWA) [1]	3.5 mg/m³		
WEL STEL (OEL STEL)	7 mg/m³		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

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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

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

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 : dark grey.
Appearance : Grease.

Odour : petroleum-like odour. Odour threshold : Not available Melting point : Not available Freezing point : Not applicable Boiling point : Not available 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

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Decomposition temperature : Not available : Not available pΗ pH solution : Not available Viscosity, kinematic : 826 mm²/s @ 40 °C Solubility : insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available : Not available Density Relative density : Not available Relative vapour density at 20 °C : Not applicable : Not available Particle size Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state : Not available Particle agglomeration state : Not available Particle specific surface area : Not available Particle dustiness : Not available

9.2. Other information

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.

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 defined in Regulation (EC) No 1272/2008

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

, ,		
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	

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Alkenyl amine (Proprietary)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 25 mg/l/4h
molybdenium(IV) sulfide (1317-33-5)	2.5 mg//-m
LD50 oral rat	COOO malka (Dat Oral)
	> 6000 mg/kg (Rat, Oral)
carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust))
Bis(2-ethylhexyl) phosphorodithioate	e Zinc Salt (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))
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 crystallir	ne silica<10% (14808-60-7)
рН	5 – 8 (40 %, 20 °C)
graphite (7782-42-5)	
рН	7 (1.3 %)
molybdenium(IV) sulfide (1317-33-5)	
рН	5 – 8 (10 %)
carbon black (1333-86-4)	
pH	4 – 11 (5 %, 20 °C)
Serious eye damage/irritation	: Causes serious eye irritation. (Based on available data, the classification criteria are not met)
chalk (1317-65-3)	
рН	8.5 – 9
quartz, 1%≤conc respirable crystallir	ne silica<10% (14808-60-7)
рН	5 – 8 (40 %, 20 °C)
graphite (7782-42-5)	
pH	7 (1.3 %)
molybdenium(IV) sulfide (1317-33-5)	
pH	5 – 8 (10 %)
carbon black (1333-86-4)	
pH	4 – 11 (5 %, 20 °C)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: 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 crystallir	ne silica<10% (14808-60-7)
IARC group	1 - Carcinogenic to humans

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POLYETHYLENE (9002-88-4)	
IARC group	3 - Not classifiable
carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
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)
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)
Alkenyl amine (Proprietary)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
carbon black (1333-86-4)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0011 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Bis(2-ethylhexyl) phosphorodithioate Zinc	Salt (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)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
RailArmor® EP 1	
Viscosity, kinematic	826 mm²/s @ 40 °C
chalk (1317-65-3)	
Viscosity, kinematic	Not applicable
carbon black (1333-86-4)	
Viscosity, kinematic	No data available (test not performed)
Bis(2-ethylhexyl) phosphorodithioate Zinc	Salt (4259-15-8)
Viscosity, kinematic	131.6 mm²/s (40 °C, ASTM D445: Capillary viscometer)

No additional information available

SECTION 12: Ecological information

12.1. Toxici	itv
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: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Ecology - general

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.

Not rapidly degradable

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	

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graphite (7782-42-5)		
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	
Alkenyl amine (Proprietary)		
LC50 - Fish [1]	0.11 mg/l 96 hr. Fathead Minnow	
LC50 - Fish [2]	0.9 mg/l 96 hr. Sheepshead Minnow	
EC50 - Crustacea [1]	0.011 mg/l 48 hr. Daphnia magna	
NOEC (chronic)	0.013 mg/l 21 day Daphnia magna	
NOEC chronic crustacea	0.013 mg/l 21 day Daphnia magna	
carbon black (1333-86-4)		
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
ErC50 algae	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	lt (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):	
12.2. Persistence and degradability		
Resin (64742-16-1)		
Persistence and degradability	Biodegradability in soil: no data available.	
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.	
ethene/1-propene,polymer (9010-79-1)		
Persistence and degradability	Biodegradability in water: no data available.	
molybdenium(IV) sulfide (1317-33-5)		
Chemical oxygen demand (COD)	Not applicable.	
ThOD	Not applicable.	
BOD (% of ThOD)	Not applicable.	
carbon black (1333-86-4)		
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.	

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carbon black (1333-86-4)	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Bis(2-ethylhexyl) phosphorodithioate Zinc Sal	t (4259-15-8)
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
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.
Alkenyl amine (Proprietary)	
Partition coefficient n-octanol/water (Log Kow)	7.5 Calculated
ethene/1-propene,polymer (9010-79-1)	
Bioaccumulative potential	No bioaccumulation data available.
Bis(2-ethylhexyl) phosphorodithioate Zinc Sal	t (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).
12.4. Mobility 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.
molybdenium(IV) sulfide (1317-33-5)	
Ecology - soil	Adsorbs into the soil.
carbon black (1333-86-4)	
Surface tension	Not applicable
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.
Bis(2-ethylhexyl) phosphorodithioate Zinc Sal	t (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.
12.5. Results of PBT and vPvB assessment No additional information available	
12.6. Endocrine disrupting properties No additional information available	

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 o	class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
4.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
4.5. Environmental haz	ards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary information	n 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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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 in	SECTION 16: Other information				
Abbreviations and acr	onyms:				
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				

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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	
EUH208	Contains 2,5-bis(octyldithio)-1,3,4-thiadiazole(13539-13-4). May produce an allergic reaction.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

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.