

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/8/2021 Revision date: 7/28/2022 Supersedes: 6/20/2022 Version: 2.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: RailArmor® EP 2
1.2. Recommended use and restrictions on No additional information available	use
1.3. Supplier	
Manufacturer	
Whitmore 930 Whitmore Drive Rockwall, Texas, 75087 USA T 1.972.771.1000 <u>Regulatory@whitmores.com</u> - <u>www.whitmores.com</u>	
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)
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixt	ure
GHS US classification Serious eye damage/eye irritation Category 2	H319 Causes serious eye irritation
Full text of H statements : see section 16	noro Causes senous eye initation
2.2. GHS Label elements, including precaut	ionary statements
GHS US labeling	ionary statements
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS US)	 P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face 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.
2.3. Other hazards which do not result in cl No additional information available	assification
2.4. Unknown acute toxicity (GHS US) Not applicable	
SECTION 3: Composition/Information of 3.1. Substances Not applicable	on ingredients
3.2. Mixtures	
Name	Product identifier % GHS US classification
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No.: 4259-15-8 ≤ 1.175 Eye Dam. 1, H318
Full text of hazard classes and H-statements : see s	ection 16
SECTION 4: First-aid measures	
1.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.

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- First-aid measures after skin contact : Wash skin with plenty of water. : Rinse eyes with water as a precaution.
- First-aid measures after eye contact
- First-aid measures after ingestion

: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

Protection during firefighting

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing) media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the chem	ical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release me 6.1. Personal precautions, protective	easures 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 containing	
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, inclu	ding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
RailArmor® EP 2	
No additional information available	
Bis(2-ethylhexyl) phosphorodithioate	2 Zinc Salt (4259-15-8)
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/Pe	ersonal protective equipment
Hand protection:	
Neeprope or pitrile rubber gloves	

Neoprene or nitrile rubber gloves

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Туре	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	0.3 mm - 0.6 mm	
Eye protection:				
Wear eye protection				
Skin and body protect	tion:			
Wear suitable protective	e clothing			
Respiratory protection	ייי			
No respiratory protectio	n needed under normal use cor	nditions		

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and che	emical properties : Solid
Physical state	: Solid : Grease.
Appearance	
Color	: Gray
Odor	: petroleum-like odor
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: 694 mm²/s @ 40 °C
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
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.

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SECTION 11: Toxicological information	
11.1. Information on toxicological effects Acute toxicity (oral)	Not classified
	Not classified
Acute toxicity (inhalation)	Not classified
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	ılt (4259-15-8)
LD50 oral rat	3100 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3100 mg/kg body weight
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	ılt (4259-15-8)
NOAEL (oral,rat,90 days)	125 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
Aspiration hazard	Not classified
Viscosity, kinematic	694 mm²/s @ 40 °C
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	lt (4259-15-8)
Viscosity, kinematic	131.6 mm²/s (40 °C, ASTM D445: Capillary viscometer)
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	lt (4259-15-8)
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	·
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	lt (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	
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	ılt (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.
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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

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

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number			I
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
Transport document description			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available		1	1

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

ΙΑΤΑ

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information 15.1. US Federal regulations		
All components of this product are present and liste (TSCA) inventory, except for:	d as Active on the United States	Environmental Protection Agency Toxic Substances Control
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No. 4259-15-8	≤ 1.175%
15.2. International regulations	· · ·	·
CANADA No additional information available		
EU-Regulations No additional information available		

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National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
chalk(1317-65-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
quartz, 1%≤conc respirable crystalline silica<10%(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
graphite(7782-42-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Full text of H-phrases	
H318	Causes serious eye damage
H319 Causes serious eye irritation	

Safety Data Sheet (SDS), USA

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.