

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

1. Identification oduct form	: Mixture			
rade name	: RailArmor® EP 1			
.2. Recommended use and restrictions or				
No additional information available	luse			
1.3. Supplier Manufacturer				
Whitmore 930 Whitmore Drive Rockwall, Texas, 75087 USA T 1.972.771.1000 Regulatory@whitmores.com - <u>www.whitmores.com</u>				
1.4. Emergency telephone number				
Emergency number	Within USA and C	ergency Call CHEMTREC anada: 1.800.424.9300 Canada: +1.703.527.388 oted)	-	ays/week
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixe	ture			
	2			
GHS US classification Serious eye damage/eye irritation Category 2	Ц [,]	319 Causes ser	ious eye irrita	ation
Full text of H statements : see section 16		old Gauses ser		
2.2. GHS Label elements, including precau	tionary statements			
GHS US labeling	2			
Signal word (GHS US)	: Warning			
Hazard statements (GHS US)	: H319 - Causes se	rious eye irritation		
Precautionary statements (GHS US)	P280 - Wear prote P305+P351+P338 contact lenses, if p	ds, forearms and face tho active gloves/protective clo b - IF IN EYES: Rinse cau bresent and easy to do. Co e irritation persists: Get m	othing/eye pro tiously with w ontinue rinsin	otection/face protection. rater for several minutes. Remove ng.
2.3. Other hazards which do not result in c No additional information available	lassification			
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/Information 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	<u>≤</u> 1.875	Eye Dam. 1, H318
Full text of hazard classes and H-statements : see s	section 16	070 110 4203-10-0	- 1.075	
un text of fiazaru classes and ri-statements : see s				
SECTION 4: First-aid measures				
4.1. Description of first aid measures				

RailArmor® EP 1	
Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Mond	av. March 26. 2012 / Rules and Regulations
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/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe No additional information available	
4.3. Immediate medical attention and space Treat symptomatically.	pecial treatment, if necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguis Suitable extinguishing media	hing media : Water spray. Dry powder. Foam.
 5.2. Specific hazards arising from the c Hazardous decomposition products in case of f 	hemical
5.3. Special protective equipment and p	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	
6.1. Personal precautions, protective ed	Jupment and emergency procedures
6.1.1. For non-emergency personnel	· Exercise equation Shill area may be aligned.
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 containm	ent 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, includ	ing any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/pers 8.1. Control parameters	sonal protection
RailArmor® EP 1	
No additional information available	
Bis(2-ethylhexyl) phosphorodithioate	Zinc Salt (1250-15-8)
No additional information available	Line Gait (4239-13-0)
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/Per	

Hand protection:

Neoprene or nitrile rubber gloves

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 protec	tion:			
Wear suitable protectiv	e clothing			
Respiratory protectio	n:			
No respiratory protection	on needed under normal use cor	ditions		

SECTION 9: Physical and chemical pr	operties
9.1. Information on basic physical and che	emical properties
Physical state	: Solid
Appearance	: Grease.
Color	: dark 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	: 826 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 r	eactivity

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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	alt (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
	Not classified
	Not classified
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	alt (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	: 826 mm²/s @ 40 °C
Bis(2-ethylhexyl) phosphorodithioate Zinc Sa	alt (4259-15-8)
Viscosity, kinematic	131.6 mm²/s (40 °C, ASTM D445: Capillary viscometer)
SECTION 12: Ecological information	
SECTION 12: Ecological information 12.1. Toxicity	
	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	alt (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	alt (4259-15-8)
Persistence and degradability	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).
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.
L	1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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			1
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			

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 E	Environmental Protection Agency Toxic Substances Control Act
Bis(2-ethylhexyl) phosphorodithioate Zinc Salt	CAS-No. 4259-15-8	≤ 1.875%
15.2. International regulations		
CANADA No additional information available		
EU-Regulations No additional information available		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

No additional information available

15.3. US State regulations

This product can expose you to Carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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		
soybean oil(8001-22-7)	U.S Pennsylvania - RTK (Right to Know) List		
molybdenium(IV) sulfide(1317-33-5)	U.S New York City - Right to Know Hazardous Substances List		
carbon black(1333-86-4)	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

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 07/28/2022

Full text of H-phra	ises
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.