

SAFETY DATA SHEET

Revision Number 1

Issuing Date No data available Revision Date 29-Oct-2018



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1. IDENTIFICATION

Product identifier

Product Name All Season RailArmor with Moly

Other means of identification

(M)SDS Number WPS-JLI-145

Recommended use of the chemical and restrictions on use

Recommended Use No information available

Uses advised against No information available

Details of the supplier of the safety data sheet

Whitmore Manufacturing LLC **Supplier Identification**

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E-mail Sales@jetlube.com

Emergency telephone number

Company Emergency Phone

1-800-699-6318

Number

CHEMTREC: +1-703-527-3887 (INTERNATIONAL) **Emergency Telephone Number**

1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2



Appearance No information available

Physical state Semi-Solid

Odor No information available

GHS Label elements, including precautionary statements

Hazard statements

Causes serious eye irritation Suspected of causing cancer



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash hands and face thoroughly after handling

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to industrial incineration plant

Other information

Harmful to aquatic life with long lasting effects

Unknown acute toxicity

16.5 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS-No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.		70-80	-	-



Calcium carbonate	471-34-1	5-10	=	-
Graphite	7782-42-5	1-5	-	-
Molybdenum (IV) sulfide	1317-33-5	<2.0	-	-
Zinc,	4259-15-8	<1.0	-	-
bis[O,O-bis(2-ethylhexyl)				
phosphorodithioato-S,S`]-				
, (T-4)-				
Carbon black	1333-86-4	<0.2	-	-

4. FIRST AID MEASURES

First aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None. **Sensitivity to Static Discharge** None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautionsSee Section 12 for additional Ecological Information.



Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure LimitsThis product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

exposure limits established by the region specific regulatory bodies.

Chemical Name		ACGIH T	LV	0	SHA PEL	NIC	NIOSH IDLH	
Calcium carbonate		-		TWA	A: 15 mg/m ³	TWA: 5 mg/	m³ respirab	le dust
471-34-1				TWA: 5 mg/m ³		TWA: 10 i	mg/m³ total	dust
				(vacated) TWA: 15 mg/m ³				
				(vacated)) TWA: 5 mg/m³			
Graphite		TWA: 2 mg/m ³	respirable	TWA: 15	mg/m³ total dust	IDLH:	: 1250 mg/m ³	3
7782-42-5		particulate matte	r all forms		ynthetic	TWA: 2.5 ı	mg/m³ respi	rable
		except graphit	e fibers	TWA: 5 m	ng/m³ respirable		dust	
				fraction	on synthetic			
				(vacated)	TWA: 2.5 mg/m ³			
				respirab	le dust natural			
				(vacated) TV	VA: 10 mg/m³ total			
					t synthetic			
				(vacated) TWA: 5 r				
					fraction synthetic			
				TWA: 15 mppcf natural				
Molybdenum (IV) sulfi	de	TWA: 10 mg/m ³ Mo inhalable		TWA: 15 i	mg/m³ total dust	IDLH: 5	5000 mg/m ³ M	/lo
1317-33-5		particulate matter		(vacated) T	WA: 10 mg/m ³ Mo			
		TWA: 3 mg/m³ Mo	A: 3 mg/m3 Mo respirable					
		particulate n	natter					
Carbon black		TWA: 3.5 m	ng/m³		: 3.5 mg/m ³		: 1750 mg/m ³	3
1333-86-4				(vacated) TWA: 3.5 mg/m ³			A: 3.5 mg/m ³	
							ng/m³ Carbon	
							nce of Polycy	
						aromatic h	ydrocarbons	PAH
Chemical Name		Alberta	British C	Columbia	Ontario TWAE		Quebec	
Calcium carbonate	Т Т	WA: 10 mg/m ³		10 mg/m ³		Т	TWA: 10 mg/r	m³
471-34-1			TWA: 3	3 mg/m³				
			STEL: 2	20 mg/m ³				





Graphite	TWA: 2 mg/m ³			
7782-42-5				
Molybdenum (IV) sulfide	TWA: 10 mg/m ³	TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
1317-33-5	TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 3 mg/m ³	
Carbon black 1333-86-4	TWA: 3.5 mg/m ³			

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection Wear suitable gloves. Viton™. Nitrile rubber.

Skin and body protectionNo special protective equipment required.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Semi-Solid

AppearanceNo information availableOdorNo information availableColorNo information availableOdor ThresholdNo information available

 Property
 Values
 Remarks
 Method

 pH
 No data available
 None known

 Melting / freezing point
 200
 None known

 Boiling point / boiling range
 260
 None known

Flash Point221None knownEvaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limitNo data availableLower flammability limitNo data available

Vapor pressure No data available None known Vapor density No data available None known Relative density 0.96 None known Water Solubility No data available None known Solubility(ies) No data available None known Partition coefficient: n-octanol/water No data available None known Autoignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dvnamic viscosity** No data available None known

Explosive properties No information available Oxidizing properties No information available



Other Information

Softening Point
Molecular Weight
VOC Content (%)
Liquid Density
Bulk Density
Particle Size
Particle Size
No information available

10. STABILITY AND REACTIVITY

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoidNone known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous Decomposition Products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity

Unknown acute toxicity 16.5 % of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals,	= 2280 mg/kg(Rat)		
alkaline earth metals, etc.			
Calcium carbonate	= 6450 mg/kg (Rat)		
Molybdenum (IV) sulfide			> 2820 mg/m³ (Rat) 4 h



Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S`]-, (T-4)-	= 3100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.Serious eye damage/eye irritationNo information available.Respiratory or skin sensitizationNo information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black	A3	Group 2B	-	X
1333-86-4		·		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Lubricating greases A complex combination of hydrocarbons having carbon numbers predominantly in the range of C12 through C50. may contain organic salts of alkali metals, alkaline earth metals, etc.	>1001 mg/l	96h LC50: > 2000 mg/L (Salmo gairdneri)	-	
Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S`]- , (T-4)-	96h EC50: 1.0 - 5.0 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 1.0 - 5.0 mg/L (Pimephales promelas) 96h LC50: 10.0 - 35.0 mg/L (Pimephales promelas)	-	48h EC50: 1 - 1.5 mg/L
Carbon black			-	EC50 24 h: > 5600 mg/L (Daphnia magna)



Persistence and Degradability No information available.

Bioaccumulation There is no data for this product.

Chemical Name	Log Pow
Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S`]-, (T-4)-	2.86

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

products

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Chemical Name	California Hazardous Waste
Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S`]-, (T-4)-	Toxic
4259-15-8	

14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG Not regulated

MEX NOT REGULATED

ICAO NOT REGULATED

<u>IATA</u> Not regulated

IMDG Not regulated

RID NOT REGULATED

ADR NOT REGULATED

ADN NOT REGULATED

15. REGULATORY INFORMATION

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

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable



International Inventories

TSCA

Contact supplier for inventory compliance status.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S`]-, (T-4) 4259-15-8	4259-15-8	<1.0	1.0

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority	CWA - Hazardous
	Quantities		Pollutants	Substances
Zinc,		X		
bis[O,O-bis(2-ethylhexyl)				
phosphorodithioato-S,S`]-				
, (T-4)-				
4259-15-8				

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.



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Chemical Name	California Proposition 65	
Carbon black - 1333-86-4	Carcinogen	

U.S. State Right-to-Know Regulations

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

Chemical Name	New Jersey	Massachusett	Pennsylvania	Rhode Island	Illinois
		S			
Calcium carbonate	X	X	X		
471-34-1					
Graphite	Χ	X	X		
7782-42-5					
Molybdenum (IV) sulfide		X			
1317-33-5					
Zinc, bis[O,O-bis(2-ethylhexyl)	Χ		X	X	
phosphorodithioato-S,S`]-, (T-4)-					
4259-15-8					
Carbon black	Χ	X	X	X	Χ
1333-86-4					

16. OTHER INFORMATION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal Protection X

Prepared By Product Stewardship

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Revision Date 29-Oct-2018

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

