

FLEXDEL

Safety Data Sheet

1. Product and Company Identification

Material name ARMOR
Version # 01
Revision date 1-6-2022
Product code 13101
EPA Reg. No. 74681-28-44891
Product use Marine Antifouling Paint
Distributor New Nautical Coatings, Inc.
14805 49th Street North
Clearwater, FL 33756
USA Only: 1-800-528-0997
International: 727-523-8053

Emergency

CHEMTREC day or night inside USA & Canada
1-800-424-9300
CHEMTREC day or night inside outside USA & Canada
1-703-741-5970

2. Hazards Identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226
Acute Tox. 4 H302
Asp. Tox. 1 H304
Aquatic Chronic 1 H410
Aquatic Acute 1 H400
Skin Sens. 1 H317
Carc. 1A H350

Contains 9.5% ingredients of unknown oral toxicity.

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: **Danger**

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor
H304 – May be fatal if swallowed and enters airways
H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H350 - May cause cancer
H400 - Very toxic to aquatic life
H410- Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing fumes or mist.
P264 - Wash face, hands and forarms thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P310 - IF SWALLOWED: Immediately call a doctor.
P301+P312 - If swallowed: Call a doctor if you feel unwell
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P308+P313 - If exposed or concerned: Get medical advice/attention
P321 - Specific treatment (see first aid instructions on this label)
P330 - Rinse mouth
P331 - Do NOT induce vomiting
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use water to extinguish
P391 - Collect spillage
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to licenced waste handling facility.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

3. Composition / Information on Ingredients

Components	CAS #	Percent
High Flash Naphtha	64742-94-5	<7.50%
Tralopyril	122454-29-9	<6.0%
Zinc Pyrithione	13463-41-7	<5, 0%
Xylene	1330-20-7	>18.0%
Barium Sulphate	7727-43-1	<9.0%
Magnesium Silicate	14807-96-6	3.0%

4. First Aid Measures

Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, if breathing is difficult give oxygen administered by a professional. Call a poison control center or doctor immediately for further treatment advice. For additional information in case of emergency call toll free CHEMTREC 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor for treatment.
Ingestion	DO NOT INDUCE VOMITING unless told to do so by medical personnel. Call a poison control center or doctor immediately for treatment advice. NEVER give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammable properties	Flammable, Category 3, Flash Point 77-83 °F.
Extinguishing media -	Water, water fog, foam, dry chemical, carbon dioxide
Firefighting equipment/instructions.	– Self-contained breathing apparatus and full protective clothing
Hazardous combustion products	- Carbon and Zinc oxides.

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Wear suitable protective clothing. See Section 8 of the SDS for Personal Protective Equipment.
Environmental precautions	Collect using non-sparking equipment and dispose of spillage in accordance with state and local regulations.
Methods for containment	Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Never return spills to original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Observe good industrial hygiene practices.
Storage	Keep container tightly closed and in a well-ventilated place. Store in closed original container at room temperature. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Components	Value
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Xylene (1330-20-7)	
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STEL	150 ppm
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TWA	100 ppm
High Flash Naphtha (64742-94-5)	
STEL	150 ppm
TWA	100 ppm
Zinc Oxide (1314-13-2)	
STEL	Not Available
TWA	Not Available
Zinc Pyrithione (13463-41-7)	
STEL	Not Available
TWA	Not Available
Barium Sulphate (7727-43-1)	
STEL	Not Available
TWA	Not Available
Magnesium Silicate (14807-96-6)	
STEL	Not Available
TWA	Not Available

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	TYPE	Value
Zinc Oxide	PEL	5 mg/M3
High Flash Naphtha	PEL	25 ppm
Xylene	PEL	100 ppm
Zinc Pyrithione	PEL	Not Available
Barium Sulphate	PEL	5 mg/M3
Magnesium Silicate	PEL	5 mg/M3

Engineering controls Ensure adequate ventilation, especially in confined areas. Must control air contamination to their exposure limits.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or

canister.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Liquid.
Color	Deep Blue, Black and White.
Odor	Pleasant.
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
pH	Not Applicable
Melting point	Not Applicable.
Freezing point	Not Applicable.
Boiling point	244 °F
Flash point	77-83 °F.
Evaporation rate	Faster than water.
Flammability limits in air, lower,	1.1
Vapor Pressure	Unknown
Vapor density	Heavier than air
Specific gravity	1.60.
Solubility (water)	Not Soluble.
Partition coefficient (n-octanol/water)	No data available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with flames and high heat.
Incompatible materials	Strong acids and alkalis.
Hazardous decomposition products	- Carbon, Silicone, Sulphur and Zinc Oxides
Possibility of hazardous reactions	- Hazardous decomposition will not occur

11. Toxicological Information

Toxicological data

Components	Test	Results
Zinc Oxide	Acute Oral	LD50 7950 mg/Kg
High Flash Naphtha	Acute Dermal	LD50 >3100 mg/Kg
	Acute Oral	LD50 >2900 mg/Kg
Xylene	Acute Oral	LD50 5,000 mg/Kg

	Acute Dermal	LD50 1240 mg/Kg
Zinc Pyrithione	Acute Oral	LD50 330 mg/Kg
Tralopyril	Acute Dermal	LD50 206 mg/Kg
Barium Sulphate	Acute data	Not available
Magnesium Silicate	Acute Dermal	LD50 10,000 mg/Kg

Acute effects

Routes of Exposure - Eye contact, skin contact, inhalation and ingestion

Eye Contact - eye irritation

Skin Contact - harmful if absorbed through the skin, causes skin irritation. May cause reddening of skin. This product has a low potential to cause skin sensitization or allergic reactions.

Inhalation - irritating to respiratory system

Ingestion - irritating digestive tract

Chronic effects - Unknown

Carcinogenicity - This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. Ecological Information

Ecotoxicological data

Components	Test Results
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Zinc Oxide - Possible affects on marine life
 Zinc Pyrithione - Will affect health of marine life
 Barium Sulphate - Will not affect health of marine life
 Magnesium Silicate - Will not affect health of marine life

Ecotoxicity - Can be harmful to aquatic organisms.

Persistence and degradability - Unknown

Bioaccumulation/ Accumulation - Unknown

Partition coefficient (n-octanol/water) - Unknown

Mobility in environmental media - No ecotoxicity known or available

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings and disposal procedures.

14. Transport Information

UN Number - UN1263

UN Proper Shipping Name - PAINT

Transport Hazard Classes \

DOT (Domestic Surface Transportation - Proper Shipping Name - PAINT

DOT Hazard Class - 3

UN/NA Number - UN1263

UN Packing Group - III

IMO/IMDG (Ocean Transportation)

IMDG Shipping Name - PAINT

IMDG Hazard Class - 3, Sub Class - 3

IMDG Packing Group - III, System Reference Code - 1

Environmental Hazards

IMDG - Marine Pollutant - Yes, contains zinc compounds

zinc pyriithione, zinc oxide and tralopril

Special Precautions for User - Not Regulated

Transport in bulk according to Annex II of MARPOL 7378 and the IBC Code

Not Applicable

15. Regulatory Information

US federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

US TSCA Section 12(b) Export Notification: For exportation, please follow directions provided by the Federal EPA on Export of Registered Pesticides.

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15) - Not controlled

State regulations

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Note: This product is registered with the Environmental Protection Agency for sale in the United States. For sale outside the United States and its' Territories, please contact Blue Water advise for advice.

16. Other Information

HMIS® ratings

Health: 2
Flammability 3
Physical hazard: 1

NFPA ratings

Health: 2
Flammability: 3
Instability: 1

Disclaimer

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Blue Water Marine assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Blue Water Marine assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Issue date

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