SAFETY DATA SHEET



1. Identification

Product identifier ER2XXX Series Part A Coating and Lining (All Colors)

Other means of identification Not available. Synonym(s) ER2010 Not available. Recommended use **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name Ergon Armor

Address 1655 Harbor Avenue

Memphis, TN 38113

USA

1-800-222-7122 **Telephone** Website www.ergonarmor.com E-mail sds@ergon.com

Emergency 24-hour phone number

CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887

Information on operation

8:00 a.m. to 5:00 p.m.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Environmental hazards Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes eye irritation. Causes skin irritation.

Prevention Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.

Response Specific treatment see Section 4 of this SDS. Wash contaminated clothing before reuse. IF exposed

> or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Storage Store in accordance with local/regional/national regulations.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN		25068-38-6	30 - 50
BARIUM SULFATE		7727-43-7	5 - 15
TALC (Mg3Si4O10(OH)2)		14807-96-6	5 - 15
AMORPHOUS SILICA (RESPIRABLE DUST)		112926-00-8	< 3

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Chemical name CAS number % Common name and synonyms 2-METHOXY-1-METHYLETHYL < 0.5 108-65-6 **ACETATE**

Composition comments The full text for all R- and H-phrases is displayed in section 16.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Wash

contaminated clothing before reuse.

Eye contact Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation

persists after washing.

Ingestion Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that

stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel

unwell.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information

Direct contact with eyes may cause temporary irritation.

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for

firefighters Fire-fighting

equipment/instructions

Specific methods

Move containers from fire area if you can do so without risk.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

During fire, gases hazardous to health may be formed.

Do not use water jet as an extinguisher, as this will spread the fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and

place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Avoid prolonged exposure. Observe good industrial hygiene practices.

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of

the SDS).

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8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form
BARIUM SULFATE (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction
•	_	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 19	<u> </u>		_
Components	Туре	Value	Form
AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8)	TWA	0.8 mg/m3	
		20 mppcf	
TALC (Mg3Si4O10(OH)2) (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.
,		0.1 mg/m3	Respirable.
		20 mppcf	•
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Valu	105	• • • • • • • • • • • • • • • • • • • •	·
Components	Туре	Value	Form
BARIUM SULFATE (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
TALC (Mg3Si4O10(OH)2) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction
US. NIOSH: Pocket Guide to Cho	emical Hazards		
Components	Туре	Value	Form
AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8)	TWA	6 mg/m3	
BARIUM SULFATE (CAS 7727-43-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
TALC (Mg3Si4O10(OH)2) (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
US. AIHA Workplace Environme	ental Exposure Level (WEEL) Guide	S	
•			

Biological limit values

2-METHOXY-1-METHYLETH

YL ACETATE (CAS 108-65-6)

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Components

US - California OELs: Skin designation

2-METHOXY-1-METHYLETHYL ACETATE (CAS 108-65-6) Can be absorbed through the skin.

Type

TWA

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined

Value

50 ppm

occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style

gloves.

Other Wear suitable protective clothing.

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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and

considerations before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to

remove contaminants.

9. Physical and chemical properties

Appearance Not available.
Physical state Liquid.

Form Liquid. Color Not available. Not available. Odor **Odor threshold** Not available. Not available.

Initial boiling point and

Melting point/freezing point

boiling range

212 °F (100 °C) estimated

482.0 °F (250.0 °C) estimated Flash point

Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower Not available.

(%)

Flammability limit -

upper (%)

Not available.

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper

(%)

Not available.

Not available. Vapor pressure Vapor density Not available. Not available. **Relative density**

Solubility(ies)

Not available. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. **Viscosity**

Other information

Density 12.35 lbs/gal

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. **Inhalation** Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. **Eye contact** Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not available. **Acute toxicity**

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Product Species Test Results

ER2XXX Series Part A Coating and Lining (All Colors) (CAS Mixture)

Acute

Other

LD50 Rabbit 6389.7778 g/kg estimated

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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

contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the

normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 3 Not classifiable as to carcinogenicity to humans.

112926-00-8)

TALC (Mg3Si4O10(OH)2) (CAS 14807-96-6)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms.

Product		Species	Test Results	
ER2XXX Series Part A	Coating and Lining	(All Colors) (CAS Mixture)		
Crustacea	EC50	Daphnia	6.3019 mg/l, 48 hours estimated	
Fish	LC50	Fish	3.5901 mg/l, 96 hours estimated	
Components		Species	Test Results	
BARIUM SULFATE (CA	S 7727-43-7)			
Aquatic				
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours	
BISPHENOL A-(EPICH	LORHYDRIN) EPOX	Y RESIN (CAS 25068-38-6)		
Crustacea	EC50	Daphnia magna	2.7 mg/l, 48 hours	
Fish	LC50	Salmo gairdneri (new name Oncorhynchus mykiss)	1.5 mg/l, 96 hours	

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. **Mobility in soil** No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions When this product as supplied is to be discarded as waste, it does not meet the definition of a

RCRA waste under 40 CFR 261.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues /

unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)

Class 9 **Subsidiary risk Packing group** III**Environmental hazards**

Marine pollutant Yes F-A, S-F **EmS**

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

Transport in bulk according to Not available. Annex II of MARPOL 73/78

and the IBC Code

IMDG



Marine pollutant



15. Regulatory information

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

BARIUM SULFATE (CAS 7727-43-7) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8)

BARIUM SULFATE (CAS 7727-43-7)

TALC (Mg3Si4O10(OH)2) (CAS 14807-96-6)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

BARIUM SULFATE (CAS 7727-43-7)

TALC (Mg3Si4O10(OH)2) (CAS 14807-96-6)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

16. Other information, including date of preparation or last revision

05-21-2015 **Issue date**

Version # 01

Material name: ER2XXX Series Part A Coating and Lining (All Colors)

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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.

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