# SAFETY DATA SHEET



## 1. Identification

Product identifier PENNCOAT™ 210 Resin

Other means of identification None.

**Recommended use**Not available.
Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information

**Company Name** ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.

**Address** 2829 Lakeland Drive Jackson, MS 39232

USA

After hours telephone

number .

1-800-222-7122

Normal work hours telephone number

1-877-982-7667

Websitewww.ergonarmor.comE-mailsds@ergon.com

**Emergency 24-hour telephone number** 

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

Information on operation

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

hours

# 2. Hazard(s) identification

**Physical hazards** Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2
Sensitization, skin Category 1
Hazardous to the aquatic environment, acute Category 2

hazard

OSHA defined hazards Not classified.

**Label elements** 

**Environmental hazards** 



Signal word Warning

**Hazard statement** May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Causes skin

irritation. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Avoid release to the environment. Wash hands thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear protective gloves and eye/face

protection.

**Response** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

Material name: PENNCOAT™ 210 Resin 5692 Version #: 01 Issue date: 05-17-2021

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
BISPHENOL A-(EPICHLOROHYDRIN) EPOXY RESIN		25068-38-6	60 - 80
QUARTZ		14808-60-7	20 - 30
CASHEW, NUTSHELL LIQ., GLYCIDYL ETHERS		171263-25-5	10 - 30
BUTYL GLYCIDYL ETHER		2426-08-6	5 - 15
TITANIUM DIOXIDE		13463-67-7	1 - 10
EPICHLOROHYDRIN		106-89-8	< 0.2

#### 4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. Call a POISON CENTER or doctor/physician if you feel unwell. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.

Eye contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse mouth. Do not induce vomiting. Do not use mouth-to-mouth method if victim ingested the

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

Ingestion

substance. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Mild skin irritation. Irritation of eyes and mucous membranes. Prolonged exposure may cause

Most important symptoms/effects, acute and delayed

chronic effects. Irritant effects.

**Indication of immediate** medical attention and special treatment needed

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water spray. Water fog. Foam. Carbon dioxide (CO2). Powder.

Not available.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

**Special protective equipment** and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

Specific methods

Move containers from fire area if you can do so without risk. Water runoff can cause environmental

In the event of fire, cool tanks with water spray. Move container from fire area if it can be done without risk.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Avoid inhalation of vapors or mists. Avoid skin contact and inhalation of vapors during disposal of spills.

# Methods and materials for containment and cleaning up

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 or absorbent material then place into containers. Prevent product from entering drains.

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

## **Environmental precautions**

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

#### Precautions for safe handling

Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid breathing vapor. Do not get this material on clothing. Use personal protective equipment as required. Do not use in areas without adequate ventilation. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store in original tightly closed container. Store in a closed container away from incompatible materials. Keep away from food, drink and animal feedingstuffs.

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components	ir Contaminants (29 CFR 19: Type	Value	Form
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	PEL	270 mg/m3	
		50 ppm	
EPICHLOROHYDRIN (CAS 106-89-8)	PEL	19 mg/m3	
		5 ppm	
QUARTZ (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 191	10.1000)		
Components	Туре	Value	Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	TWA	3 ppm	
EPICHLOROHYDRIN (CAS 106-89-8)	TWA	0.5 ppm	
QUARTZ (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	Form
BUTYL GLYCIDYL ETHER (CAS 2426-08-6)	Ceiling	30 mg/m3	

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**US. NIOSH: Pocket Guide to Chemical Hazards** 

Value Components Type

5.6 ppm

**Form** 

**TWA** 0.05 mg/m3 QUARTZ (CAS 14808-60-7) Respirable dust.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

EPICHLOROHYDRIN (CAS 106-89-8) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

EPICHLOROHYDRIN (CAS 106-89-8) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

EPICHLOROHYDRIN (CAS 106-89-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

BUTYL GLYCIDYL ETHER (CAS 2426-08-6) Can be absorbed through the skin. EPICHLOROHYDRIN (CAS 106-89-8) Can be absorbed through the skin.

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

EPICHLOROHYDRIN (CAS 106-89-8) Can be absorbed through the skin.

Appropriate engineering

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

controls occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

Skin protection

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

Other Avoid contact with the skin. Wear appropriate chemical resistant clothing. Chemical resistant

gloves.

When workers are facing concentrations above the exposure limit they must use appropriate Respiratory protection

certified respirators.

Thermal hazards Not available.

**General hygiene** considerations

Do not get in eyes. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and

drink. Handle in accordance with good industrial hygiene and safety practice.

#### 9. Physical and chemical properties

Liquid. **Appearance Physical state** Liquid. **Form** Liquid. Color Varies Odor Mild. Sweet.

**Odor threshold** Not available. Not available.

3110 °F (1710 °C) estimated Melting point/freezing point

Initial boiling point and

boiling range

Not available.

Flash point > 230.0 °F (> 110.0 °C) Pensky-Martens Closed Cup

**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.

**Explosive limit - lower** 

Not available.

(%)

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**Explosive limit - upper** 

(%)

Not available.

Vapor pressure Nil

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Specific gravity 1.11 @25C

# 10. Stability and reactivity

**Reactivity** Not available.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

This product will autopolymerize at very high temperatures. (>200 deg C)

**Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point.

**Incompatible materials** Strong acids, alkalies and oxidizing agents. Amines.

**Hazardous decomposition** 

products

Toxic gas. Irritants.

### 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with

throat discomfort, coughing or difficulty breathing.

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

**Ingestion** Causes digestive tract burns. However, ingestion is not likely to be a primary route of occupational

exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Upper respiratory tract irritation. Irritation of nose and throat. Irritant effects.

#### Information on toxicological effects

**Acute toxicity** Not applicable.

Components Species Test Results

BUTYL GLYCIDYL ETHER (CAS 2426-08-6)

<u>Acute</u>

Dermal

LD50 Rabbit 0.788 g/kg

**Inhalation** 

LC50 Rat > 670 mg/l, 8 Hours

Oral

LD50 Rat 2.05 g/kg

EPICHLOROHYDRIN (CAS 106-89-8)

<u>Acute</u>

Oral

LD50 Rat 90 mg/kg

Material name: PENNCOAT™ 210 Resin

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Serious eye damage/eye

May be irritating to eyes.

Causes skin irritation.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

N-BUTYL GLYCIDYL ETHER (BGE) (CAS 2426-08-6) Dermal sensitization

Respiratory sensitization Not available.

Skin sensitization May cause sensitization by skin contact. May cause an allergic skin reaction.

Germ cell mutagenicity Not classified.

Carcinogenicity This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulatec

form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

EPICHLOROHYDRIN (CAS 106-89-8) 2A Probably carcinogenic to humans.

QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

QUARTZ (CAS 14808-60-7)

US. National Toxicology Program (NTP) Report on Carcinogens

EPICHLOROHYDRIN (CAS 106-89-8) Reasonably Anticipated to be a Human Carcinogen.

QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity Not available. Not classified.

Specific target organ toxicity

single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not applicable.

**Aspiration hazard** Not classified.

**Chronic effects** Skin contact may aggravate an existing dermatitis.

**Further information** Symptoms may be delayed.

# 12. Ecological information

**Ecotoxicity** The product contains a substance which is harmful to aquatic organisms. Species

Product		Species	Test Results
PENNCOAT™ 210 Res	in		
Aquatic			
Crustacea	EC50	Daphnia	5.0325 mg/l, 48 hours estimated
Fish	LC50	Fish	2.7955 mg/l, 96 hours estimated
Components		Species	Test Results

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 9.1 - 12.3 mg/l, 96 hours

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

**Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

**BUTYL GLYCIDYL ETHER** 0.63 **EPICHLOROHYDRIN** 0.45

Not available. Mobility in soil Other adverse effects Not available.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# 13. Disposal considerations

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

Do not discharge into drains, water courses or onto the ground. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the

time of disposal, whether the product meets RCRA criteria for hazardous waste.

**Hazardous waste code** Not applicable.

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). Avoid discharge into water courses or onto the ground.

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

#### 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. (BISPHENOL

A-(EPICHLOROHYDRIN) EPOXY RESIN), MARINE POLLUTANT (EPICHLOROHYDRIN)

Transport hazard class(es)

Class 9
Subsidiary risk Packing group III
Environmental hazards

Marine pollutant Yes
EmS F-A, S-F
Special precautions for Not available.

user

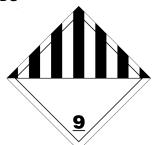
**EPICHLOROHYDRIN** 

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** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard

29 CFR 1910.1200.

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)** 

EPICHLOROHYDRIN (CAS 106-89-8) Listed.

SARA 304 Emergency release notification

EPICHLOROHYDRIN (CAS 106-89-8) 100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

QUARTZ (CAS 14808-60-7) Cancer lung effects

immune system effects

kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

**Chemical name CAS** number Reportable **Threshold** Threshold **Threshold** planning quantity planning planning quantity (pounds) (pounds) quantity, lower quantity, upper value (pounds) value (pounds)

**EPICHLOROHYDRIN** 106-89-8 100 1000

**SARA 311/312** 

Yes

**Hazardous chemical** 

**Classified hazard** Skin corrosion or irritation

categories Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313 (TRI reporting)

**CAS** number **Chemical name** % by wt. **EPICHLOROHYDRIN** 106-89-8 < 0.2

#### Other federal regulations

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

EPICHLOROHYDRIN (CAS 106-89-8)

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

EPICHLOROHYDRIN (CAS 106-89-8)

**Safe Drinking Water Act** 

(SDWA)

Not regulated.

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer and

birth defects or other reproductive harm.

**California Proposition 65** 

California Proposition 65 - CRT: Listed date/Carcinogenic substance

EPICHLOROHYDRIN (CAS 106-89-8) Listed: October 1, 1987 QUARTZ (CAS 14808-60-7) Listed: October 1, 1988 TITANIUM DIOXIDE (CAS 13463-67-7) Listed: September 2, 2011

California Proposition 65 - CRT: Listed date/Male reproductive toxin

EPICHLOROHYDRIN (CAS 106-89-8) Listed: September 1, 1996

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

EPICHLOROHYDRIN (CAS 106-89-8)

QUARTZ (CAS 14808-60-7)

TITANIUM DIOXIDE (CAS 13463-67-7)

**International Inventories** 

Country(s) or region **Inventory name** On inventory (yes/no)\*

Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes

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Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes

<sup>\*</sup>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 country(s).

Toxic Substances Control Act (TSCA) Inventory

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

**Issue date** 05-17-2021

Version # 01

United States & Puerto Rico

**Further information** HMIS® is a registered trade and service mark of the NPCA.

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**References** ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**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.

**Revision information** Product and Company Identification: Alternate Trade Names

Composition / Information on Ingredients: Disclosure Overrides

HazReg Data: International Inventories

GHS: Classification

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Yes