SAFETY DATA SHEET



1. Identification

Product identifier PENNCOAT™ 380 RESIN (All Colors)

Other means of identification None.

Recommended useNot 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

Normal work hours telephone number

1-877-982-7667

1-800-222-7122

Website www.ergonarmor.com
E-mail sds@ergon.com

Emergency 24-hour telephone number

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

Information on operation

hours

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
Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Category 1

Specific target organ toxicity, repeated

exposure

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

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause

respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this

product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face

protection. Wash thoroughly after handling.

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

advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Specific treatment see Section 4 of this SDS. Take off contaminated clothing and wash before

reuse. Call a POISON CENTER/doctor if you feel unwell.

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

Disposal

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
STYRENE		100-42-5	20 - 30
BISPHENOL A-(EPICHLOROHYDRIN) EPOXY RESIN		25068-38-6	1 - 10
Other components below reportable	e levels		72.925

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Take off immediately all contaminated clothing. Wash clothing separately before reuse. Get medical attention if irritation develops and persists.

Eye contact

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

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. Do not induce vomiting. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention.

Most important symptoms/effects, acute and delayed Skin irritation. Irritating to mouth, throat, and stomach. Contact may cause redness, burning, drying, and cracking of the skin, and skin damage. Causes serious eye irritation. May cause an allergic skin reaction.

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.

Keep victim warm. Keep victim under observation. 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

General information

Water spray. Foam. Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam. Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

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. Structural firefighters protective clothing will only provide limited protection.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all sources of ignition. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate sources of ignition. Keep out of low areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Keep away from sources of ignition - No smoking. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store locked up. Eliminate sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value		
STYRENE (CAS 100-42-5)	Ceiling	200 ppm		
	TWA	100 ppm		
US. ACGIH Threshold Limit Values				
Components	Туре	Value		
STYRENE (CAS 100-42-5)	STEL	20 ppm		
	TWA	10 ppm		
US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value		
STYRENE (CAS 100-42-5)	STEL	425 mg/m3		
		100 ppm		
	TWA	215 mg/m3		
		50 ppm		

Biological limit values

ACGIH Biological Expos Components	ure Indices Value	Determinant	Specimen	Sampling Time
STYRENE (CAS 100-42-5)	40 μg/l	Styrene	Urine	*
	400 mg/g	Mandelic acid plus phenylglyoxylic acid	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

STYRENE (CAS 100-42-5)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

STYRENE (CAS 100-42-5) Skin designation applies.

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

certified respirators.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance Paste.
Physical state Liquid.
Form Liquid.
Color Varies

Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and Not available.

boiling range

Flash point > 212.0 °F (> 100.0 °C)

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

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Conditions to avoid

Specific gravity 1.25 @25°C

10. Stability and reactivity

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

Chemical stabilityMaterial is stable under normal conditions. **Possibility of hazardous**Hazardous polymerization does not occur.

reactions

Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents. Aluminum. Peroxides.

Hazardous decomposition

products

Carbon dioxide. Aldehydes. Carbon monoxide. Nitrogen oxides (NOx). Formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness

and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity

Components **Test Results Species**

STYRENE (CAS 100-42-5)

Acute

Oral

LD50 Rat 1 g/kg

Skin corrosion/irritation Serious eve damage/eve

Causes serious eve irritation.

Causes skin irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

STYRENE (CAS 100-42-5) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

STYRENE (CAS 100-42-5) Reasonably Anticipated to be a Human Carcinogen.

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

Chasias

Specific target organ toxicity

- single exposure

May cause respiratory irritation.

Specific target organ toxicity

- repeated exposure

Dua du ak

Causes damage to organs through prolonged or repeated exposure.

Took Dooulka

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated

exposure. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Product		Species	lest Results				
PENNCOAT™ 380 RESIN (All Colors)							
Aquatic							
Crustacea	EC50	Daphnia	112.5, 48 hours estimated				
Fish	LC50	Fish	62.5, 96 hours estimated				
Acute							
Crustacea	EC50	Daphnia	411.9108, 48 hours estimated				
Fish	LC50	Fish	20.5915, 96 hours estimated				

Material name: PENNCOAT™ 380 RESIN (All Colors)

SDS US 7582 Version #: 01 Issue date: 06-15-2023

Components **Species Test Results**

STYRENE (CAS 100-42-5)

Aquatic

EC50 Water flea (Daphnia) Crustacea 42, 24 hours

Acute

LC50 Fish Sheepshead minnow (Cyprinodon >= 5.1 - <= 16 mg/l, 96 hours

variegatus)

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

STYRENE 2.95

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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 /

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

Disposal instructions).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Not regulated as dangerous goods.

IATA

UN number

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (BISPHENOL A-(EPICHLOROHYDRIN) EPOXY

RESIN)

Transport hazard class(es)

Class 9 **Subsidiary risk Packing group** TTT **Environmental hazards** YES **ERG Code** 9L

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN3082 **UN** number

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIOUID, N.O.S. (BISPHENOL

A-(EPICHLOROHYDRIN) EPOXY RESIN), MARINE POLLUTANT

Transport hazard class(es)

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

Marine pollutant Yes F-A, S-F

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

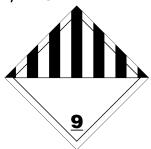
user

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

IATA: 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.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b)

inventory or are designated "inactive".

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

STYRENE (CAS 100-42-5)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Skin corrosion or irritation

categoriesSerious eye damage or eye irritation
Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 STYRENE
 100-42-5
 20 - 30

Other federal regulations

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

STYRENE (CAS 100-42-5)

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

Not regulated.

Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

STYRENE (CAS 100-42-5) Other

Other Flavoring Substances with OSHA PEL's

US state regulations

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

STYRENE (CAS 100-42-5)

California Proposition 65



WARNING: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

STYRENE (CAS 100-42-5) Listed: April 22, 2016

International Inventories

Country(s) or region	Inventory name On inven	itory (yes/no)*			
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes			
Canada	Domestic Substances List (DSL)	Yes			
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			
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes			
*A "Ves" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)					

^{*}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 gove

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).

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

Issue date 06-15-2023

Version # 01

NFPA ratings Health: 2

Flammability: 0 Instability: 0

Disclaimer Ergon Armor cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

Material name: PENNCOAT™ 380 RESIN (All Colors) 7582 Version #: 01 Issue date: 06-15-2023

On inventory (was /ma)*