# **SAFETY DATA SHEET**



### 1. Identification

Product identifier	PENNCOAT™ 310 ESD LINING RESIN - DARK GRAY			
Other means of identification	None.			
Recommended use	For industrial use only.			
Recommended restrictions	None known.			
Manufacturer/Importer/Suppli	er/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			
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	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements

Signal word Hazard statement

Prevention

Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

serious eye irritation. May cause genetic d through prolonged or repeated exposure. Precautionary statement



Response	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment see Section 4 of this SDS. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store in a well-ventilated place. Keep cool. 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 - 50
AROMATIC 100 - 7.29		64742-95-6	1.7 - 2.0
TITANIUM DIOXIDE		13463-67-7	1.7 - 2.0
COBALT(II) 2-ETHYLHEXANOATE		136-52-7	0.2 - 0.4
Other components below reportable	levels		62.67

### 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.
General information	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	Water spray. Foam. Dry chemical. Carbon dioxide (CO2).		
Unsuitable extinguishing media	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,	Eliminate all sources of ignition. Keep unnecessary personnel away. Ensure adequate ventilation.
protective equipment and	Do not breathe mist or vapor. Keep people away from and upwind of spill/leak. Do not touch or
emergency procedures	walk through spilled material. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
	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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. 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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with eyes, skin, and clothing. When using do not eat or drink. Avoid breathing dust/fume/gas/mist/vapors/spray. Take precautionary measures against static discharges. Use explosion-proof equipment. Flammable vapors may accumulate in the container. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Flammable vapors may accumulate in the container. Use non-sparking tools. Ground/bond container and receiving equipment. Avoid prolonged exposure. Observe good industrial hygiene practices. Provide adequate ventilation. Wash thoroughly after handling. Wash contaminated clothing before reuse.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep containers tightly closed. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Keep container in a well-ventilated place.

## 8. Exposure controls/personal protection

Components	Туре	Value	Form
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-2 (29 CFR 19	10.1000)		
Components	Туре	Value	
STYRENE (CAS 100-42-5)	Ceiling	200 ppm	
	TWA	100 ppm	
US. OSHA Table Z-3 (29 CFR 19	10.1000)		
Components	Туре	Value	Form
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 Valu	es	15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Valu Components	es Type	15 mppcf Value	Respirable fraction.
Components COBALT(II) 2-ETHYLHEXANOATE (CAS			
Components COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7)	Туре	Value	Form
Components COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7)	TWA	Value 0.02 mg/m3	Form
	TWA STEL	Value 0.02 mg/m3 20 ppm	Form
Components COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7) STYRENE (CAS 100-42-5) TITANIUM DIOXIDE (CAS	TWA TWA STEL TWA TWA	<b>Value</b> 0.02 mg/m3 20 ppm 10 ppm	Form
Components COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7) STYRENE (CAS 100-42-5) TITANIUM DIOXIDE (CAS 13463-67-7)	TWA TWA STEL TWA TWA	<b>Value</b> 0.02 mg/m3 20 ppm 10 ppm	Form
Components COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7) STYRENE (CAS 100-42-5) TITANIUM DIOXIDE (CAS 13463-67-7) US. NIOSH: Pocket Guide to Che	Type TWA STEL TWA TWA TWA	<b>Value</b> 0.02 mg/m3 20 ppm 10 ppm 10 mg/m3	Form

Components	Ту	ре	Va	lue
	ΤV	VA	21!	5 mg/m3
			50 ppm	
ological limit values ACGIH Biological Exposu	uro Indicos			
Components	Value	Determinant	Specimen	Sampling Time
COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7)	15 µg/l	Cobalt	Urine	*
STYRENE (CAS 100-42-5)	40 µg/l	Styrene	Urine	*
	400 mg/g	Mandelic acid plus phenylglyoxylic acid	Creatinine in urine	*
* - For sampling details, ple	ase see the source d	ocument.		
posure guidelines				
US - California OELs: Ski	n designation			
STYRENE (CAS 100-42			absorbed throug	gh the skin.
US - Minnesota Haz Sub	-			
STYRENE (CAS 100-42	•		signation applies	
opropriate engineering ontrols		Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.		
dividual protection measu Eye/face protection		<b>nal protective equip</b> ses with side shields (		
Skin protection Hand protection	Wear protective	gloves.		
Other	Wear appropriate	e chemical resistant cl	othing.	
<b>Respiratory protection</b>	In case of insuffi	cient ventilation, wear	suitable respira	tory equipment.
Thermal hazards	Wear appropriate	e thermal protective cl	othing, when ne	cessary.
eneral hygiene onsiderations		inking, and/or smokin		as washing after handling the material a sh work clothing and protective equipme

### 9. Physical and chemical properties

to remove contaminants.

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Gray
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	84.9 °F (29.4 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.

Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information Density	10.09 lb/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 reactions	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	None known.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **11.** Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
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. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Causes serious eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort. May cause an allergic skin reaction. Dermatitis. Skin irritation.

#### Information on toxicological effects

· · · · · · · · · · · · · · · · · · ·		
Acute toxicity		
Components	Species	Test Results
STYRENE (CAS 100-42-5)		
<u>Acute</u>		
Oral		
LD50	Rat	1 g/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	May cause eye irritation.	
Respiratory or skin sensitizati	on	
ACGIH sensitization		
Cobalt and inorganic con Co (CAS 136-52-7)	pounds, inhalable fraction, as	Dermal sensitization
		Respiratory sensitization
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	May cause genetic defects.	
Carcinogenicity	May cause cancer.	
IARC Monographs. Overal	Evaluation of Carcinogenici	ty
AROMATIC 100 - 7.29 (C	AS 64742-95-6)	3 Not classifiable as to carcinogenicity to humans.

STYRENE (CAS 100-42-5) TITANIUM DIOXIDE (CAS 13463-67-7) OSHA Specifically Regulated Substances (29 CFR 1 Not listed.		2A Probably carcinogenic to humans. 2B Possibly carcinogenic to humans. .1001-1053)
	ogram (NTP) Report on Carc	inogens
COBALT(II) 2-ETHYLHEXANOATE (CAS 136-52-7) STYRENE (CAS 100-42-5)		Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard Chronic effects	Not an aspiration hazard. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	

### **12. Ecological information**

Ecotoxicity	Not expec	ted to be harmful to aquatic organisms.		
Product		Species	Test Results	
PENNCOAT™ 310 ESD I	LINING RESIN - D	ARK GRAY		
Aquatic				
Fish	LC50	Fish	76.195, 96 hours	
Acute				
Crustacea	EC50	Daphnia	54054.0547, 48 hours estimated	
Fish	LC50	Fish	14.5675, 96 hours estimated	
Components		Species	Test Results	
STYRENE (CAS 100-42-	5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia)	42, 24 hours	
Acute				
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	>= 5.1 - <= 16 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.

Partition coefficient n-octanol / water (log Kow) STYRENE 2.95		
STINENE	2.55	
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 Local disposal regulations	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 emptied.

## 14. Transport information

DOT

UN number UN1263

	UN proper shipping name	Paint related material including paint thinning, drying, removing, or reducing compound
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	III
	Special precautions for user	Not available.
	Special provisions	B1, B52, IB3, T2, TP1, TP29
	Packaging exceptions	150
	Packaging non bulk	173
	Packaging bulk	242
IAT	A	
	UN number	UN1263
	UN proper shipping name Transport hazard class(es)	Paint related material (including paint thinning or reducing compounds)
	Class	3
	Subsidiary risk	-
	Packing group Environmental hazards	III No.
	ERG Code	3L
	Special precautions for	Not available.
	user	
	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.
IM		
	UN number	UN1263
	UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
	Transport hazard class(es)	
	Class Subsidiary risk	3
	Packing group	III
	Environmental hazards	
	Marine pollutant	No.
	EmS	F-E, <u>S-E</u>
	Special precautions for user	Not available.
Anı	insport in bulk according to nex II of MARPOL 73/78 d the IBC Code	Not available.
DO	т	
-	FLAMMABLE LIQUID	

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# 15. Regulatory information

15. Regulatory morniati				
US federal regulations	All components are on the U	J.S. EPA TSCA Inve	entory List.	
Toxic Substances Control A	ict (TSCA)			
TSCA Section 12(b) Ex	port Notification (40 CFR 7	707, Subpt. D)		
Not regulated.				
<b>CERCLA Hazardous Substa</b>	nce List (40 CFR 302.4)			
COBALT(II) 2-ETHYLHEXA STYRENE (CAS 100-42-5) SARA 304 Emergency relea		Listed. Listed.		
Not regulated.				
OSHA Specifically Regulate	ed Substances (29 CFR 19	10.1001-1053)		
Not listed.				
Superfund Amendments and Re SARA 302 Extremely hazar		5 (SARA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Flammable (gases, aerosols Skin corrosion or irritation Serious eye damage or eye Respiratory or skin sensitiza Germ cell mutagenicity Carcinogenicity Specific target organ toxicity	irritation tion		
SARA 313 (TRI reporting)			<b>/</b>	
Chemical name	CA	S number	% by wt.	
STYRENE	10	00-42-5	20 - 50	
Other federal regulations				
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollut	ants (HAPs) List		
COBALT(II) 2-ETHYLHEXA STYRENE (CAS 100-42-5)				
Clean Air Act (CAA) Sectior	n 112(r) Accidental Releas	e Prevention (40	CFR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
	ces Respiratory Health and	=		=
STYRENE (CAS 100-4	ł2-5)	Other Flavoring	3 Substances with OSHA PE	EL's
US state regulations US. California. Candidate C subd. (a))	hemicals List. Safer Consu	umer Products Re	egulations (Cal. Code Re	egs, tit. 22, 69502.3,
AROMATIC 100 - 7.29 (C/ COBALT(II) 2-ETHYLHEX/ STYRENE (CAS 100-42-5)				

#### **California Proposition 65**



**WARNING:** WARNING: This product contains a chemical known to the State of California to cause cancer. 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
TITANIUM DIOXIDE (CAS 13463-67-7)	Listed: September 2, 2011

#### **International Inventories**

Country(s) or region	Inventory name On i	nventory (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 "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).

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

Issue date	03-16-2023
Version #	01
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.