SAFETY DATA SHEET



1. Identification

Product identifier PENNCOAT™ 340 RESIN (All Colors)

Other means of identification None.

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

Manufacturer/Importer/Supplier/Distributor information

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

Address 2829 Lakeland Drive Jackson, MS 39232

1-800-222-7122

After hours telephone

number

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** Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Germ cell mutagenicity Category 1 Carcinogenicity Category 1

> Specific target organ toxicity, repeated exposure

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

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Causes serious eve

irritation. May cause genetic defects. May cause cancer. Causes damage to organs through

prolonged or repeated exposure.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective

Category 1

gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with Response

water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eve irritation persists: Get medical

advice/attention. Take off contaminated clothing and wash before reuse. IF exposed or

concerned: Get medical advice/attention. Specific treatment see Section 4 of this SDS. In case of

fire: Use appropriate media for extinction.

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
METHACRYLIC ACID		79-41-4	1 - 5
TITANIUM DIOXIDE		13463-67-7	1.8 - 2.1
MICROCRYSTALLINE SILICA		14808-60-7	<= 2.5
AROMATIC 100 - 7.29		64742-95-6	0.50 - 0.52
Other components below reportable	le levels		56.646

Other components below reportable levels

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.

Wash off with soap and water. Take off immediately all contaminated clothing. Wash clothing Skin contact

separately before reuse. Get medical attention if irritation develops and persists.

Eve 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.

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

Skin irritation. Irritating to mouth, throat, and stomach. Contact may cause redness, burning,

symptoms/effects, acute and drying, and cracking of the skin, and skin damage. Causes serious eve irritation. May cause an allergic skin reaction.

delayed

Indication of immediate medical attention and special

treatment needed

General information

Most important

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

Water spray. Foam. Dry chemical. Carbon dioxide (CO2).

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

the chemical

media

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

Special protective equipment and precautions for

firefighters

Fire fighting equipment/instructions 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.

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

Eliminate all sources of ignition. Keep unnecessary personnel away. Ensure adequate ventilation. Do not breathe mist or vapor. Keep people away from and upwind of spill/leak. Do not touch or 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. 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

Occupational exposure limits

(CAS 14808-60-7) TITANIUM DIOXIDE (CAS PEL 15 mg/m3 Total dust. 13463-67-7) US. OSHA Table Z-2 Permissible Exposure Limits (PEL) (29 CFR 1910.1000) Components Type Value STYRENE (CAS 100-42-5) Ceiling 200 ppm TWA 100 ppm US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000) Components Type Value Form MICROCRYSTALLINE SILICA TWA 0.1 mg/m3 Respirable. (CAS 14808-60-7) 2.4 mppcf Respirable. TITANIUM DIOXIDE (CAS TWA 5 mg/m3 Respirable fraction 13463-67-7) 15 mg/m3 Total dust. 50 mppcf Total dust. 50 mppcf Total dust. 15 mppcf Respirable fraction US. ACGIH Threshold Limit Values (TLV) Components Type Value Form METHACRYLIC ACID (CAS TWA 20 ppm 79-41-4) MICROCRYSTALLINE SILICA TWA 0.025 mg/m3 Respirable fraction	US. OSHA Table Z-1 Permissible Components	Туре	Value	Form
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13463-67-7) 15 mg/m3 Total dust. 50 mppcf Total dust. 15 mppcf Respirable fraction WS. ACGIH Threshold Limit Values (TLV) Components Type Value Form METHACRYLIC ACID (CAS TWA 20 ppm 79-41-4) MICROCRYSTALLINE SILICA TWA 0.025 mg/m3 Respirable fraction (CAS 14808-60-7) STYRENE (CAS 100-42-5) STEL 20 ppm			2.4 mppcf	Respirable.
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US. ACGIH Threshold Limit Values (TLV) Components Type Value Form METHACRYLIC ACID (CAS 79-41-4) MICROCRYSTALLINE SILICA (CAS 14808-60-7) STYRENE (CAS 100-42-5) STEL 15 mppcf Respirable fraction 0.025 mg/m3 Respirable fraction 20 ppm			15 mg/m3	Total dust.
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	MICROCRYSTALLINE SILICA (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
TWA 10 ppm	STYRENE (CAS 100-42-5)	STEL	20 ppm	
		TWA	10 ppm	

Material name: PENNCOAT™ 340 RESIN (All Colors) 7778 Version #: 01 Issue date: 10-29-2024

Components	Ty	ype	Va	lue	Form
TITANIUM DIOXIDE (CAS 13463-67-7)	T	WA	2.5	mg/m3	Respirable finescale particles
			0.2	mg/m3	Respirable nanoscale particles
NIOSH. Immediately Dar Components		Health (IDLH) Valu ype		l lue	
MICROCRYSTALLINE SILICA (CAS 14808-60-7)	IC	DLH	50	mg/m3	
STYRENE (CAS 100-42-5)	II	DLH	0.9	%	
			700) ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	IC	DLH	500	00 mg/m3	
US. NIOSH: Pocket Guide Components		ards Recommended ype	•	ts (REL) lue	Form
METHACRYLIC ACID (CAS 79-41-4)		WA		mg/m3	
73 11 1)			20	ppm	
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STYRENE (CAS 100-42-5)	S ⁻	ΓEL	425	5 mg/m3	
(* * * * * * * * * * * * * * * * * * *) ppm	
	T	WA		5 mg/m3	
		•••		ppm	
ACGIH Biological Exposu	• •	Dotowninaut			Fi.m.o
ACGIH Biological Exposu Components	Value	Determinant Styrene	Specimen	Sampling 7	Гіте
ACGIH Biological Exposu Components STYRENE (CAS 100-42-5)	Value 20 μg/l	Styrene	Specimen Urine	Sampling 1	Гіте
ACGIH Biological Exposu Components STYRENE (CAS 100-42-5)	Value	Styrene Mandelic acid plus	Specimen	Sampling 7	Гіте
ACGIH Biological Exposu Components STYRENE (CAS 100-42-5)	Value 20 μg/l	Styrene Mandelic acid plus phenylglyoxylic	Specimen Urine Creatinine in	Sampling 7	Time
ACGIH Biological Exposu Components STYRENE (CAS 100-42-5)	Value 20 μg/l 150 mg/g	Styrene Mandelic acid plus phenylglyoxylic acid	Specimen Urine Creatinine in	Sampling 7	Time
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In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary.

Respiratory protection

Thermal hazards

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 and chemical properties

Appearance

Physical state Liquid. **Form** Liquid.

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

boiling range

87.8 °F (31.0 °C) Flash point **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.

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

Solubility(ies)

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

(n-octanol/water)

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

Other information

Density 10.74 lb/gal **Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

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 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 Harmful if inhaled. Skin contact Causes skin irritation.

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. Dermatitis. Skin irritation. Shortness of breath. Irritating to mouth, throat, and

stomach. Repeated exposure may cause skin dryness and cracking.

Information on toxicological effects

Acute toxicity

Test Results Components **Species**

METHACRYLIC ACID (CAS 79-41-4)

Acute **Dermal**

Rabbit LD50 500 mg/kg

Inhalation

LC50 Rat 7.1 mg/l, 4 Hours

Oral

LD50 Rat 1060 mg/kg

STYRENE (CAS 100-42-5)

Acute Oral

LD50 Rat 1 g/kg

TITANIUM DIOXIDE (CAS 13463-67-7)

Acute Dermal

LD50 Hamster >= 10000 mg/kg

Oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye May cause eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Not available.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

AROMATIC 100 - 7.29 (CAS 64742-95-6) 3 Not classifiable as to carcinogenicity to humans.

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

STYRENE (CAS 100-42-5) 2A Probably carcinogenic to humans. TITANIUM DIOXIDE (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

MICROCRYSTALLINE SILICA (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens

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

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

Reproductive toxicity Not available. Specific target organ toxicity Not classified.

- single exposure

- repeated exposure

Specific target organ toxicity

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

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12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Product PENNCOAT™ 340 RESIN	(All Colors)	Species	Test Results
Aquatic			
Fish	LC50	Fish	76.195 mg/l, 96 hours
Acute			
Crustacea	EC50	Daphnia	9.2941 mg/l, 48 hours estimated
Fish	LC50	Fish	9.266 mg/l, 96 hours estimated
Components		Species	Test Results
STYRENE (CAS 100-42-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia)	42 g/ml, 24 hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	3.3 - 7.4 mg/l, 48 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)

METHACRYLIC ACID 0.93 STYRENE 2.95

LC50

Mobility in soil No data available.

Other adverse effectsNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

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

Fathead minnow (Pimephales promelas) 3.29 - 5.05 mg/l, 96 hours

13. Disposal considerations

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

Local disposal regulations Dispose in accordance with all applicable regulations.

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

disposal company.

Waste from residues / unused products

Fish

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 UN1866

ON1866

UN proper shipping name Resin solution, flammable

Transport hazard class(es)

Class 3
Subsidiary hazard Label(s) 3
Packing group III
Environmental hazards

Marine pollutant No.

Special precautions for Not assigned.

HEAT

Special provisions B1, B52, IB3, T2, TP1

Packaging exceptions 150
Packaging non bulk 173
Packaging bulk 242

IATA

UN1866 **UN number**

UN proper shipping name Resin solution flammable

Transport hazard class(es)

Class 3 **Subsidiary hazard** Packing group III **Environmental hazards** No. **ERG Code** 3L

Special precautions for Not assigned.

user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1866

UN proper shipping name **RESIN SOLUTION flammable**

Transport hazard class(es)

Class 3 **Subsidiary hazard Packing group** III **Environmental hazards**

Marine pollutant No. **EmS** F-E, S-E Not assigned. **Special precautions for** user

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

DOT



IATA; IMDG



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.

Toxic Substances Control Act (TSCA)

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)

MICROCRYSTALLINE SILICA (CAS 14808-60-7) Car

lung effects

immune system effects

kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Germ cell mutagenicity

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
STYRENE	100-42-5	20 - 50	

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 Not regulated.

(SDWA)

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

STYRENE (CAS 100-42-5) Other Flavoring Substances with OSHA PEL's

US state regulations

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

MICROCRYSTALLINE SILICA (CAS 14808-60-7)

STYRENE (CAS 100-42-5)

Listed: October 1, 1988

Listed: April 22, 2016

TITANIUM DIOXIDE (CAS 13463-67-7)

Listed: September 2, 2011

International Inventories

Country(s) or region	Inventory name	On inventory (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

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

Taiwan Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory Yes

United States & Puerto Rico *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 10-29-2024

Version # 01

NFPA ratings Health: 2

Flammability: 3 Instability: 0

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 quidance 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 Hazard(s) identification: Response

> Hazard(s) identification: Prevention Physical and chemical properties: Color

Other information, including date of preparation or last revision: Disclaimer

GHS: Classification

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Yes