SAFETY DATA SHEET



1. Identification

PENNCOAT™ 331 RESIN (ALL COLORS) **Product identifier**

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

1-800-222-7122

1-877-982-7667

USA

After hours telephone

number

Normal work hours

telephone number

Website www.ergonarmor.com

E-mail sds@ergon.com

Emergency 24-hour telephone number **Information on**

operation hours

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

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

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3 Acute toxicity, inhalation Category 4 **Health hazards** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Carcinogenicity Category 1

Specific target organ toxicity, repeated Category 1

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 eye

irritation. May cause cancer. Causes damage to organs through prolonged or repeated

exposure.

Prevention

Precautionary statement

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 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 outdoors or in a well-ventilated area. Use only non-sparking tools. Take precautionary measures against static discharge.

Material name: PENNCOAT™ 331 RESIN (ALL COLORS)

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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. 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
MICROCRYSTALLINE SILICA		14808-60-7	< 2
Other components below report	table levels		60.095

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 allowing this was the contact.

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

allergic skin reaction.

Indication of immediate medical attention and special treatment needed

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.

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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, drink or smoke. 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

Components	Туре	ir Contaminants (29 CFR 19 Value	Form
MICROCRYSTALLINE SILICA (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-2 Permissible	Exposure Limits (PEL) (29 C	FR 1910.1000)	
Components	Туре	Value	
STYRENE (CAS 100-42-5)	Ceiling	200 ppm	
	TWA	100 ppm	
US. OSHA Table Z-3 Permissible	Exposure Limits (PEL) for M	lineral Dusts (29 CFR 1910.1	L000)
Components	Туре	Value	Form
MICROCRYSTALLINE SILICA (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value	es (TLV)		
Components	` ´ Type	Value	Form
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm	
MICROCRYSTALLINE SILICA (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction
STYRENE (CAS 100-42-5)	STEL	20 ppm	
	TWA	10 ppm	

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NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended **Components Type** Value

MICROCRYSTALLINE IDLH 50 mg/m3 SILICA (CAS 14808-60-7)

STYRENE (CAS 100-42-5) **IDLH** 0.9 %

700 ppm

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Form Components **Type Value**

METHACRYLIC ACID (CAS **TWA** 70 mg/m3

79-41-4)

20 ppm

MICROCRYSTALLINE TWA 0.05 mg/m3 Respirable dust.

SILICA (CAS 14808-60-7)

STYRENE (CAS 100-42-5) **STEL** 425 mg/m3

100 ppm

TWA 215 mg/m3

50 ppm

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
STYRENE (CAS 100-42-5)	20 μg/l	Styrene	Urine	*
	150 mg/g	Mandelic acid plus phenylglyoxylic	Creatinine in urine	*

acid

Exposure guidelines

US - California OELs: Skin designation

METHACRYLIC ACID (CAS 79-41-4) Can be absorbed through the skin. 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.

US - Tennessee OELs: Skin designation

METHACRYLIC ACID (CAS 79-41-4) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

METHACRYLIC ACID (CAS 79-41-4) Can be absorbed through the skin.

Appropriate engineering

controls

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

occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear protective gloves.

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

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

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

OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.

Initial boiling point and

boiling range

Not available.

boning range

Flash point 87.8 °F (31.0 °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 temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 10.61 lb/gal **VOC** 0.02 lb/gal

10. Stability and reactivity

ReactivityThe 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 Strong acids. Strong oxidizing agents.

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

InhalationHarmful if inhaled.Skin contactCauses 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.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Test Results Product Species

PENNCOAT™ 331 RESIN (ALL COLORS)

Acute **Dermal**

ATEmix 9483 mg/kg

Oral

ATEmix 1373 mg/kg

Components Species Test Results

STYRENE (CAS 100-42-5)

Acute Inhalation Vapor

Point estimate* 3 mg/l

Oral

LD50 Rat 1 g/kg

* Point estimate = Converted acute toxicity point estimate

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Not available. Germ cell mutagenicity Not available. Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

STYRENE (CAS 100-42-5) 2A Probably 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

Specific target organ toxicity Causes damage to organs through prolonged or repeated exposure.

- repeated exposure

Aspiration hazard Not an aspiration hazard.

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

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Product Test Results Species

PENNCOAT™ 331 RESIN (ALL COLORS)

Aquatic

Fish LC50 Fish 76.195 mg/l, 96 hours

Test Results Components **Species**

STYRENE (CAS 100-42-5)

Aquatic

Crustacea EC50 Water flea (Daphnia) 42 g/ml, 24 hours

Acute

EC50 3.3 - 7.4 mg/l, 48 hours Crustacea Water flea (Daphnia magna)

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Components **Species Test Results**

LC50 Fathead minnow (Pimephales promelas) 3.29 - 5.05 mg/l, 96 hours Fish

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

METHACRYLIC ACID 0.93 **STYRENE** 2.95

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 Dispose of this material and its container to hazardous or special waste collection point.

> Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

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 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

DOT

UN number UN1866

UN proper shipping name Resin solution, flammable

Transport hazard class(es)

Class 3 **Subsidiary hazard** 3 Label(s) Packing group III

Environmental hazards

Marine pollutant No.

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Special provisions B1, B52, IB3, T2, TP1

Packaging exceptions 150 Packaging non bulk 173 Packaging bulk 242

IATA

UN number UN1866

UN proper shipping name Resin solution flammable

Transport hazard class(es)

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

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.

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

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. F-E, <u>S-E</u>

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

Transport in bulk according to Not established. 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.

Toxic Substances Control Act

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

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

MICROCRYSTALLINE SILICA (CAS 14808-60-7)

lung effects

Cancer

immune system effects

kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Yes

Hazardous chemical

Material name: PENNCOAT™ 331 RESIN (ALL COLORS)

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

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 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 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) Listed: October 1, 1988 Listed: April 22, 2016 STYRENE (CAS 100-42-5)

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
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

02-16-2022 **Issue date** 05-14-2025 **Revision date**

Version # 03

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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