SAFETY DATA SHEET



1. Identification

Product identifier ACROCAST™ 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

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 Flammable liquids Category 3 **Health hazards** Acute toxicity, inhalation Category 4 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.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. 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. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area.

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

water/shower. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove victim

to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell. 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. In case of fire: Use appropriate media for extinction. Specific treatment (see this label). Take off contaminated clothing and wash it before reuse. IF exposed or

concerned: Get medical advice/attention.

Store locked up. Store in a well-ventilated place. Keep cool. Storage

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

4. First-aid measures

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if

victim inhaled the substance. Call a physician if symptoms develop or persist.

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

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

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

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

Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content Ingestion

doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is

having convulsions. Get medical attention immediately.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed **General information** May cause eye irritation. May cause skin irritation. May cause respiratory tract irritation, headache, dizziness, fatique, confusion, visual disturbance, drowsiness, and weakness when exposed to high vapor concentrations. Long term contact with skin may lead to dermatitis. Difficulty in breathing. In case of shortness of breath, give oxygen, Keep victim warm, Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

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.

Fire fighting equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Use standard firefighting procedures

and consider the hazards of other involved materials.

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protect themselves.

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 ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. 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). Take precautionary measures against static discharge. Use only non-sparking tools.

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. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not allow the spilled product to enter public drainage systems or open watercourses.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wear personal protective equipment. Use only with adequate ventilation. Keep away from sources of ignition - No smoking. Use explosion-proof ventilation equipment. Use non-sparking tools. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Wash thoroughly after handling. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in cool place. Keep away from heat and sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Do not store in direct sunlight. Keep container tightly closed. Use care in handling/storage.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-2 Permissible Components	Туре	Value	
STYRENE (CAS 100-42-5)	Ceiling	200 ppm	
	TWA	100 ppm	
US. ACGIH Threshold Limit Valu	ies (TLV)		
Components	Туре	Value	
STYRENE (CAS 100-42-5)	STEL	20 ppm	
	TWA	10 ppm	
NIOSH. Immediately Dangerous	s to Life or Health (IDLH) Val	ues, as amended	
	s to Life or Health (IDLH) Val Type	ues, as amended Value	
Components		· · · · · · · · · · · · · · · · · · ·	
Components	Туре	Value	
NIOSH. Immediately Dangerous Components STYRENE (CAS 100-42-5) US. NIOSH: Pocket Guide to Che	Type IDLH	Value 0.9 % 700 ppm	
Components STYRENE (CAS 100-42-5) US. NIOSH: Pocket Guide to Che	Type IDLH	Value 0.9 % 700 ppm	
Components STYRENE (CAS 100-42-5) US. NIOSH: Pocket Guide to Che Components	Type IDLH emical Hazards Recommende	Value 0.9 % 700 ppm d Exposure Limits (REL)	
Components STYRENE (CAS 100-42-5) US. NIOSH: Pocket Guide to Che Components	Type IDLH emical Hazards Recommende Type	Value 0.9 % 700 ppm d Exposure Limits (REL) Value	
Components STYRENE (CAS 100-42-5)	Type IDLH emical Hazards Recommende Type	Value 0.9 % 700 ppm d Exposure Limits (REL) Value 425 mg/m3	

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Biological limit values

ACGIH Biological Expos Components	Value (BEI)	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.

Individual protection measures, such as personal protective equipment

Goggles/face shield are recommended. **Eye/face protection**

Skin protection

Hand protection Wear protective gloves. If prolonged or repeated contact is likely, chemical resistant gloves are

recommended. If contact with forearms is likely, wear gauntlet style gloves.

Other Wear appropriate chemical resistant clothing.

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.

9. Physical and chemical properties

Viscous liquid **Appearance**

Physical state Liquid.

Form Liquid, Viscous,

Color Varies Odor Styrene Odor threshold Not available. Not available. Not available. Melting point/freezing point Initial boiling point and Not available. boiling range

84.9 °F (29.4 °C) Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

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

 Density
 8.99 lb/gal

 VOC
 0.01 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. However, this material can undergo hazardous

polymerization.

Possibility of hazardous

reactions

Hazardous polymerization can occur. Heat will speed polymerization.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Incompatible materials Acids. Halogens. Strong oxidizing agents. Copper alloys.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

InhalationHarmful if inhaled.Skin contactCauses skin irritation.Eye contactCauses 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 May cause respiratory tract irritation, headache, dizziness, fatigue, confusion, visual disturbance, drowsiness, and weakness when exposed to high vapor concentrations. Exposed individuals may experience eye tearing, redness, and discomfort. Shortness of breath. Dermatitis. Irritation of

eyes. Skin irritation. Nausea, vomiting.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Product	Species	Test Results
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ACROCAST™ RESIN (All Colors)

<u>Acute</u> Dermal

LD50 Rabbit 70423 mg/kg

Inhalation

LC50 Rat 56.1404 mg/l

53 mg/l, 4 Hours

Oral

LD50 Rat 2.3392 g/kg
Components Species Test Results

STYRENE (CAS 100-42-5)

Acute

Oral

LD50 Rat 1 g/kg

Skin corrosion/irritationCauses skin irritation. **Serious eye damage/eye**May cause eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available. **Skin sensitization** Not available.

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

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

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

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 Not available. Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Not available. Aspiration hazard

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

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Species ACROCAST™ RESIN (All Colors) **Aquatic**

Acute

Product

Crustacea EC50 Daphnia 11 mg/l, 48 hours estimated Fish LC50 Fish 10.9667 mg/l, 96 hours estimated

Components **Species Test Results**

STYRENE (CAS 100-42-5)

Aquatic

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

Acute

Crustacea EC50 Water flea (Daphnia magna) 3.3 - 7.4 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 3.29 - 5.05 mg/l, 96 hours

Persistence and degradability Not available. **Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

2.95 **STYRENE**

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

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable

Test Results

regulations.

Local disposal regulations Dispose in accordance with all applicable regulations. D001: Waste Flammable material with a flash point <140 F Hazardous waste code

Waste from residues / unused products

Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the

Contaminated packaging Since emptied containers 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.

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

14. Transport information

DOT

UN1263 **UN number**

UN proper shipping name Paint related material including paint thinning, drying, removing, or reducing compound

Transport hazard class(es)

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

Marine pollutant NO

Special precautions for Not assigned.

367, B1, B52, B131, IB3, T2, TP1, TP29 Special provisions

Packaging exceptions 150 Packaging non bulk 173 Packaging bulk 242

IATA

UN number UN1263

UN proper shipping name Paint related material (including paint thinning or reducing compounds)

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

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

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

DOT





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)

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 Flammable (gases, aerosols, liquids, or solids)

categories 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 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

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

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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

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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)

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

 Issue date
 08-16-2022

 Revision date
 05-20-2024

Version # 02

Further information HMIS® is a registered trade and service mark of the NPCA. **References** IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of OSHA. The information given is based on

data available for the material, the components of the material, and similar materials.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

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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).