SAFETY DATA SHEET



1. Identification

Product identifier BH5503 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

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

hours

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3 **Health hazards** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Germ cell mutagenicity Category 1

> Carcinogenicity Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

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

Label elements



Signal word

Hazard statement Flammable liquid and vapor. Causes eye irritation. Causes skin irritation. May cause genetic

defects. May cause cancer. May cause drowsiness or dizziness.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot

surfaces. - No smoking. Keep container tightly closed. Use explosion-proof

electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Wear protective gloves/eye protection/face protection. Ground/bond container and receiving equipment. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood.

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Specific treatment see Section 4 of this SDS. In case of fire: Use appropriate media for extinction. Response

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 exposed or concerned: Get medical advice/attention. If skin irritation occurs, seek medical advice/attention. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable for breathing. Call a POISON CENTER or

doctor/physician if you feel unwell. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and

water.

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

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

See section 13 of this SDS for disposal instructions.

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	%
ASPHALT, OXIDIZED		64742-93-4	50 - 60
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY		64742-48-9	25 -35
Limestone		1317-65-3	10 -20
BENZENE		71-43-2	< 1

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing

> difficulties, oxygen may be necessary. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention, if

needed.

Skin contact For hot product, immediately immerse in or flush the affected area with large amounts of cold

water to dissipate heat. For minor skin contact, avoid spreading material on unaffected skin. Wash

off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO Eye contact

NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and

Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician. Do not induce vomiting **Ingestion**

without advice from poison control center. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Not available.

Indication of immediate medical attention and special

treatment needed **General information**

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Do not use water jet.

IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Foam. Carbon dioxide (CO2). Water fog. Dry chemical powder.

Unsuitable extinguishing

media

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.

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Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Do not get water inside container. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Specific methods

In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep upwind, Keep out of low areas, Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Never return spills in original containers for re-use.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

7. Handling and storage

Precautions for safe handling

Avoid heat, sparks, open flames and other ignition sources. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Do not empty into drains. Hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container closed. Keep container dry. Keep away from food, drink and animal feedingstuffs. Keep out of reach of children. Use care in handling/storage.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 19	10 1001-1050\

Components	Туре	Value	
BENZENE (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Ai Components	r Contaminants (29 CFR 191 Type	.0.1000) Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
BENZENE (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
BENZENE (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
U.S NIOSH			
Components	Туре	Value	
ASPHALT, OXIDIZED (CAS 64742-93-4)	REL	5 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	Form
BENZENE (CAS 71-43-2)	STEL	1 ppm	
	TWA	0.1 ppm	

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US. NIOSH: Pocket Guide to Chemical Hazards Form Value Components **Type** Limestone (CAS 1317-65-3) **TWA** 5 mg/m3 Respirable. 10 mg/m3 Total

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
BENZENE (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*

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

Exposure guidelines

US - California OELs: Skin designation

BENZENE (CAS 71-43-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

BENZENE (CAS 71-43-2) 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; chemical goggles (if splashing is possible).

Skin protection

Hand protection Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style

gloves.

It is a good industrial hygiene practice to minimize skin contact. Wear appropriate clothing to Other

prevent any possibility of liquid contact and repeated or prolonged vapor contact.

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

certified respirators.

Thermal hazards Not available.

General hygiene considerations

When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Solid. **Physical state Form** Liquid. Color Not available. Odor Not available. **Odor threshold** Not available. Not available. рH Melting point/freezing point Not available. Initial boiling point and 212 °F (100 °C)

boiling range

Flash point 100.0 - 120.0 °F (37.8 - 48.9 °C) Cleveland Open Cup

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

Flammability limit - lower Not available.

(%)

Flammability limit -

upper (%)

Not available.

Explosive limit - lower

Not available.

(%)

Explosive limit - upper Not available.

(%)

Material name: BH5503 SDS US Vapor pressureNot available.Vapor density> 1 estimatedRelative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and reactivity

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

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. **Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

Irritants. Carbon oxides. Sulphur oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity Not classified.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitizationNot a skin sensitizer. **Germ cell mutagenicity**May cause genetic defects.

Carcinogenicity This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated

form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT, OXIDIZED (CAS 64742-93-4)

2A Probably carcinogenic to humans.

BENZENE (CAS 71-43-2) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

BENZENE (CAS 71-43-2) Cance

US. National Toxicology Program (NTP) Report on Carcinogens

BENZENE (CAS 71-43-2) Known To Be Human Carcinogen.

Reproductive toxicity Not classified.

Specific target organ toxicity Central nervous system.

- single exposure

May cause damage to organs through prolonged or repeated exposure by inhalation.

Specific target organ toxicity - repeated exposure

Material name: BH5503 SDS US

Aspiration hazard Not classified.

Chronic effects Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Components of this product are hazardous to aquatic life. Accumulation in aquatic organisms is

expected. Not expected to be harmful to aquatic organisms.

Product		Species	Test Results
BH5503			
Aquatic			
Crustacea	EC50	Daphnia	9483.4102 mg/l, 48 hours estimated
Fish	LC50	Fish	39338.1953 mg/l, 96 hours estimated
Components		Species	Test Results
BENZENE (CAS 71-43	-2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours

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

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

Partition coefficient n-octanol / water (log Kow)

BENZENE 2.13

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

13. Disposal considerations

Disposal instructions Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of this

> material and its container to hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable

regulations.

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

Waste from residues /

unused products

Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number UN1999

UN proper shipping name Tars, liquid including road oils and cut back bitumens, MARINE POLLUTANT

Transport hazard class(es)

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

Environmental hazards

Marine pollutant

Special precautions for If shipped by ground in quantities LESS than 119 gallons (450 L): Not regulated as a hazardous

material.

user Special provisions 149, B13, IB2, T3, TP3, TP29

Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

IATA

UN number UN1999

UN proper shipping name Tars, liquid including road asphalt and oils, bitumen and cut backs

Material name: BH5503 6837 Version #: 01 Issue date: 08-07-2019 Transport hazard class(es)

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

Special precautions for Not available.

user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

3

III

IMDG

UN number UN1999

UN proper shipping name TARS, LIQUID including road oils, and cutback bitumens, MARINE POLLUTANT

Transport hazard class(es) Class **Subsidiary risk**

Packing group Environmental hazards

Marine pollutant Yes **EmS** F-E, S-E **Special precautions for** Not available.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

DOT



IATA; IMDG



Marine pollutant



Material name: BH5503 SDS US

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If shipped by ground in quantities LESS than 119 gallons (450 L): Not regulated as a hazardous

material.

15. Regulatory information

US federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard

29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

BENZENE (CAS 71-43-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

BENZENE (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eve

respiratory tract irritation

Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

categories

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

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.	
BENZENE	71-43-2	< 1	

Other federal regulations

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

BENZENE (CAS 71-43-2)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

California Proposition 65

California Proposition 65 - CRT: Listed date/Carcinogenic substance

ASPHALT, OXIDIZED (CAS 64742-93-4) Listed: January 1, 1990 BENZENE (CAS 71-43-2) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Developmental toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

California Proposition 65 - CRT: Listed date/Male reproductive toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

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

BENZENE (CAS 71-43-2)

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (CAS 64742-48-9)

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*AustraliaAustralian Inventory of Chemical Substances (AICS)Yes

Material name: BH5503 SDS US

	` ,	
Canada	Non-Domestic Substances List (NDSL)	Yes
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

^{*}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

Inventory name

Domestic Substances List (DSL)

08-07-2019 **Issue date**

Version # 01

United States & Puerto Rico

Country(s) or region

Canada

Further information HMIS® is a registered trade and service mark of the NPCA.

NFPA ratings

Flammability: 3 Instability: 0

References **ACGTH**

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

Toxic Substances Control Act (TSCA) Inventory

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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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On inventory (yes/no)*

Yes