SAFETY DATA SHEET



1. Identification

Product identifier BH5501 Other means of identification None.

Recommended useNot 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

hours

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Germ cell mutagenicityCategory 1

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

Carcinogenicity Category 1

Specific target organ toxicity, single exposure Category 3 narcotic effects

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

Label elements



Signal word Danger

Hazard statement May cause cancer. Causes serious eye irritation. May cause genetic defects. Flammable liquid and

vapor. Causes skin irritation. May cause drowsiness or dizziness.

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 gloves/protective clothing/eye protection/face protection. 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. Ground/bond container and receiving equipment. Wash thoroughly

after handling. Use only outdoors or in a well-ventilated area.

Response Specific treatment see Section 4 of this SDS. If exposed or concerned: Get medical

advice/attention. In case of fire: Use appropriate media for extinction. 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 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. **Storage** Keep o

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

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	25 - 35
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY		64742-48-9	20 - 30
Limestone		1317-65-3	21.53
ASPHALT		8052-42-4	10 - 20
1-PROPANAMINE, 3-(ISODECYLOXY)-, ACETATE		28701-67-9	1 - 5
BENZENE		71-43-2	<1
QUARTZ		14808-60-7	<1
KAOLIN		1332-58-7	0.19
Other components below reportable	le levels		4.8

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. Do not use mouth-to-mouth method if victim inhaled the substance. 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 symptoms occur.

Skin contact

Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on

unaffected skin. If skin irritation occurs: Get medical advice/attention.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Remove contact lenses, if present and easy to

do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Aspiration may cause pulmonary edema and pneumonitis. If ingestion of a large amount does

occur, call a poison control center immediately.

Most important symptoms/effects, acute and delayed

Not available.

Indication of immediate medical attention and special treatment needed

In case of shortness of breath, give oxygen. Symptoms may be delayed.

General information

IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Unsuitable extinguishing
media

Foam. Dry powder. Carbon dioxide (CO2). Extinguish with water fog. Do not use water jet as an extinguisher, as this will spread the 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

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. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage.

Specific methods

In the event of fire, cool tanks with water spray. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Remove sources of ignition. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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

Dike far ahead of spill for later disposal. Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Collect spillage. Prevent product from entering drains.

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.

7. Handling and storage

Precautions for safe handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Do not breathe 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 thoroughly after handling. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep container tightly closed. Use care in handling/storage.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Туре	Value	
STEL	5 ppm	
TWA	1 ppm	
-	-	_
Туре	Value	Form
PEL	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
PEL	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
PEL	0.05 mg/m3	Respirable dust.
.1000)		
Туре	Value	
Ceiling	25 ppm	
TWA	10 ppm	
.1000)		
Туре	Value	Form
TWA	5 mg/m3	Respirable fraction.
,	STEL TWA Contaminants (29 CFR 1910 Type PEL PEL PEL PEL Ceiling TWA 1.1000) Type Type	STEL TWA 1 ppm Contaminants (29 CFR 1910.1000) Type PEL 5 mg/m3 15 mg/m3 15 mg/m3 PEL 5 mg/m3 15 mg/m3 0.05 mg/m3 15 mg/m3 1000) Type Value Ceiling Type Value Ceiling TWA 10 ppm 10 ppm

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US. OSHA Table Z-3 (29 CFR 1910.1000)

Components		Туре			Value	Form
					15 mg/m3	Total dust.
					50 mppcf	Total dust.
					15 mppcf	Respirable fraction.
QUARTZ (CAS 14808-60-7)		TWA			0.1 mg/m3	Respirable.
					2.4 mppcf	Respirable.
US. ACGIH Threshold Li	mit Values					
Components		Type			Value	Form
ASPHALT (CAS 8052-42-4)		TWA			0.5 mg/m3	Inhalable fume.
BENZENE (CAS 71-43-2)		STEL			2.5 ppm	
		TWA			0.5 ppm	
KAOLIN (CAS 1332-58-7)		TWA			2 mg/m3	Respirable fraction.
QUARTZ (CAS 14808-60-7)		TWA			0.025 mg/m3	Respirable fraction.
U.S NIOSH						
Components		Туре			Value	
ASPHALT, OXIDIZED (CAS 64742-93-4)		REL			5 mg/m3	
US. NIOSH: Pocket Guid Components	e to Chemical	Hazards Type	5		Value	Form
ASPHALT (CAS 8052-42-4)		Ceiling	 }		5 mg/m3	Fume.
BENZENE (CAS 71-43-2)		STEL			1 ppm	
		TWA			0.1 ppm	
KAOLIN (CAS 1332-58-7)		TWA			5 mg/m3	Respirable.
					10 mg/m3	Total
Limestone (CAS 1317-65-3))	TWA			5 mg/m3	Respirable.
					10 mg/m3	Total
QUARTZ (CAS 14808-60-7)		TWA			0.05 mg/m3	Respirable dust.
logical limit values						
ACGIH Biological Expose Components	ure Indices Value		Determinant	Specimer	n Sampling [.]	Time
BENZENE (CAS 71-43-2)	25 μg/g		S-Phenylmerca pturic acid	Creatinine urine	in *	

^{* -} 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 Provide adequate ventilation, inclu

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 Chemical goggles are recommended.

Skin protection

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

gloves.

Other Wear appropriate chemical resistant clothing. Chemical resistant gloves.

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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 smoke. 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 Viscous liquid

Physical state Solid.
Form Liquid.

ColorBrown to BlackOdorMild Petroleum Odor

Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point and212 °F (100 °C)

boiling range

Flash point 100.0 - 140.0 °F (37.8 - 60.0 °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.

Vapor pressure 3.88 hPa estimated

Vapor density > 1

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

Specific gravity 1.10 **VOC** < 250 g/l

10. Stability and reactivity

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

Chemical stability Stable under normal temperature conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

Conditions to avoidHeat, flames and sparks.Incompatible materialsStrong oxidizing agents.Hazardous decompositionIrritants. Toxic gas.

products

11. Toxicological information

Information on likely routes of exposure

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

Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to Skin contact

discomfort and dermatitis.

Eve contact Causes serious eye irritation.

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

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Acute toxicity Not classified.

Components **Species Test Results** KAOLIN (CAS 1332-58-7) Acute **Dermal**

LD50

Rat > 5000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available. Skin sensitization Not a skin sensitizer.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans. ASPHALT, OXIDIZED (CAS 64742-93-4) 2A Probably carcinogenic to humans.

1 Carcinogenic to humans. BENZENE (CAS 71-43-2) QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

BENZENE (CAS 71-43-2) Cancer QUARTZ (CAS 14808-60-7) Cancer US. National Toxicology Program (NTP) Report on Carcinogens

BENZENE (CAS 71-43-2) Known To Be Human Carcinogen. QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity Not classified.

Specific target organ toxicity Central nervous system. May cause drowsiness and dizziness.

- single exposure

Specific target organ toxicity Not classified.

- repeated exposure

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.

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

Product		Species	Test Results
BH5501			
Aquatic			
Crustacea	EC50	Daphnia	11307.1426 mg/l, 48 hours estimated
Fish	LC50	Fish	46903.2305 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

Transport hazard class(es)

Class Combustible Liquid

Subsidiary risk 3 Label(s) **Packing group** III**Environmental hazards**

> Marine pollutant No

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

user

material. **Special provisions** B1, B13, IB3, T1, TP3

Packaging exceptions 150 Packaging non bulk 203 **Packaging bulk** 242

IATA

UN1999 **UN number UN proper shipping name** Tars, liquid

Transport hazard class(es)

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

Special precautions for

user

Not available.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number UN1999 **UN** proper shipping name Tars, liquid

Transport hazard class(es) Class 3 Subsidiary risk Packing group III

Environmental hazards

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

Transport in bulk according to Not available. Annex II of MARPOL 73/78

and the IBC Code

IATA; IMDG



Further information

If shipped by ground in quantities LESS than 119 gallons (450 L): Not regulated as a hazardous material. If shipped by vessel in individual containers that are less than 7.9 gallons (30 L) each, then IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material.

15. Regulatory information

US federal regulations

This 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 QUARTZ (CAS 14808-60-7) Cancer

BENZENE (CAS 71-43-2) Central nervous system lung effects

QUARTZ (CAS 14808-60-7) BENZENE (CAS 71-43-2) Blood

QUARTZ (CAS 14808-60-7) immune system effects

BENZENE (CAS 71-43-2) Aspiration QUARTZ (CAS 14808-60-7) kidney effects Skin

BENZENE (CAS 71-43-2)

respiratory tract irritation

Flammability

Material name: BH5501 SDS US

Eve

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Yes

Hazardous chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Combustible dust

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 nameCAS number% by wt.BENZENE71-43-2<1</td>

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)

BENZENE (CAS 71-43-2)

QUARTZ (CAS 14808-60-7)

Listed: January 1, 1990

Listed: February 27, 1987

Listed: October 1, 1988

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))

ASPHALT (CAS 8052-42-4) BENZENE (CAS 71-43-2)

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

QUARTZ (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
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

On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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

12-17-2014 **Issue date Revision date** 05-26-2020

Version # 07

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

NFPA ratings

Flammability: 2 Instability: 0

ACGIH References

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

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

available. 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

Hazard(s) identification: Supplemental information Physical & Chemical Properties: Multiple Properties

GHS: Classification

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