SAFETY DATA SHEET



1. Identification

Product identifier BLACKHAWK™ 5710 MEMBRANE PART A

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

LISA

1-800-222-7122

1-877-982-7667

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 hazardsFlammable liquidsCategory 3Health hazardsSkin corrosion/irritationCategory 2Germ cell mutagenicityCategory 1

Carcinogenicity

Specific target organ toxicity, single exposure Category 3 narcotic effects

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

Label elements



Signal word Danger

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

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. Do not breathe 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. Wash thoroughly after handling. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Ground/bond container and receiving

Category 1

equipment. Use only outdoors or in a well-ventilated area.

Response 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. If skin irritation occurs: Get medical advice/attention. If exposed or concerned: Call a poison center/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Specific treatment see Section 4 of this SDS. Take off contaminated clothing and

wash before reuse. In case of fire: Use appropriate media for extinction.

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

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	%
ASPHALT		8052-42-4	40 - 50
MINERAL SPIRITS		64742-48-9	10 - 15
QUARTZ		14808-60-7	< 1
Other components below re	portable levels		42.37

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. Call a poison center or doctor/physician if you feel unwell.

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

water to dissipate heat. Rinse skin with water/shower. Wash contaminated clothing before reuse. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if

irritation develops and persists.

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

DO NOT delay irrigation or attempt to remove the lens. 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. Call a POISON

CENTER or doctor/physician.

Most important symptoms/effects, acute and

delaved

Indication of immediate medical attention and special treatment needed

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eve tearing, redness, and discomfort. Skin irritation. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In case of shortness of

breath, give oxygen. Keep victim under observation.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

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

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. 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. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Specific methods Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.

Flammable liquid and vapor. General fire hazards

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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

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: 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. 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. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Do not empty into drains. Observe good industrial hygiene practices. 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 locked up. Keep containers tightly closed. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in a well-ventilated place. Keep out of reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Exposure Limits (PEL) for A Type	ir Contaminants (29 CFR 191 Value	.0.1000) Form
QUARTZ (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 Permissible Components	Exposure Limits (PEL) for M Type	ineral Dusts (29 CFR 1910.1 Value	000) Form
QUARTZ (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US ASSILITATION AND LINE WALL	oc (TLV)		
	Type	Value	Form
Components	= -	Value 0.5 mg/m3	Form Inhalable fume.
Components ASPHALT (CAS 8052-42-4)	Туре		
US. ACGIH Threshold Limit Value Components ASPHALT (CAS 8052-42-4) QUARTZ (CAS 14808-60-7) NIOSH. Immediately Dangerous Components	TWA TWA	0.5 mg/m3 0.025 mg/m3	Inhalable fume.

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL) Components **Type** Value **Form** ASPHALT (CAS 8052-42-4) 5 mg/m3 Ceiling Fume. QUARTZ (CAS 14808-60-7) TWA 0.05 mg/m3 Respirable dust.

Biological limit values

ACGIH Biologic	al Exposure	Indices	(BEI)
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Components Value	Determinant	Specimen	Sampling Time
ASPHALT (CAS 8052-42-4) 2.5 μg/l	1-Hydroxypyren e, with hydrolysis (1-HP)	Urine	*

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

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Chemical resistant gloves are recommended. If

contact with forearms is likely wear gauntlet style gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

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

Observe any medical surveillance requirements. When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. 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. Viscous. Semi-solid at ambient temperature

Color Brown to Black Not available. Odor **Odor threshold** Not available. Not available. Ηd Melting point/freezing point Not available. Not available. Initial boiling point and

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 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)

Auto-ignition temperature Not available.

Decomposition temperature Not available. Viscosity Not available.

Other information

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 Stable under normal temperature conditions. Hazardous polymerization does not occur.

Possibility of hazardous

Conditions to avoid

reactions

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Fluorine.

Hazardous decomposition

products

Irritants. Toxic gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

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 May cause drowsiness or dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause

redness and pain.

Information on toxicological effects

Not known. Not classified. Acute toxicity

Product Species Test Results

BLACKHAWK™ 5710 MEMBRANE PART A

Acute Oral

LD50 Rat 847971 mg/kg

Components **Species Test Results**

ASPHALT (CAS 8052-42-4)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Oral

> 5000 mg/kgLD50 Rat

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer. Skin sensitization Causes skin irritation. Germ cell mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans.

MINERAL SPIRITS (CAS 64742-48-9)

3 Not classifiable as to carcinogenicity to humans.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7) Cance

US. National Toxicology Program (NTP) Report on Carcinogens

ASPHALT (CAS 8052-42-4) Known To Be Human Carcinogen. QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity Not classified.

Specific target organ toxicity

- single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity

- repeated exposure

Not available.

Aspiration hazard Not classified.

Chronic effects Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in the

environment.

Product Species Test Results BLACKHAWK™ 5710 MEMBRANE PART A Aquatic Crustacea EC50 Daphnia 12244.0615 mg/l, 48 hours Fish LC50 Fish 50774.9375 mg/l, 96 hours Acute Crustacea EC50 Daphnia 87327.4688 mg/l, 48 hours estimated Fish LC50 Fish 54994.2461 mg/l, 96 hours estimated

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

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.

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.

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. 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

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

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. If shipped by ground in individual containers that are less than 119 gallons (450 L): Not regulated as a hazardous

material. (49 CFR 173.121)

Special provisions B1, B13, IB3, T1, TP3

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

IATA

UN number UN1999

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

Transport hazard class(es) Class 3 **Subsidiary hazard Packing group** III**Environmental hazards** No.

ERG Code 3L

Special precautions for user

Other information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN1999 **UN number**

UN proper shipping name TARS, LIQUID including road oils, and cutback bitumens Transport hazard class(es)

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

Marine pollutant No. **EmS**

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

Transport in bulk according to

Annex II of MARPOL 73/78

and the IBC Code

Not established.

DOT



IATA; IMDG



General information

If shipped by ground in individual containers that are less than 119 gallons (450 L): Not regulated as a hazardous material (49 CFR 173.121). If shipped by vessel in individual containers that are less than 119 gallons (450 L) each, then IMDG 2.3.2.5 exception applies. Not subject to the provisions for marking, labelling, and testing of packages. "Transport in accordance with 2.3.2.5 of the IMDG code."

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.

Toxic Substances Control Act (TSCA)One or more components of the mixture are not on the TSCA 8(b)

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)

ASPHALT (CAS 8052-42-4) Listed. MINERAL SPIRITS (CAS 64742-48-9) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7) Cancer

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 Flammable (gases, aerosols, liquids, or solids)

categories Skin corrosion or irritation
Germ cell mutagenicity

Carcinogonicity

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

ASPHALT (CAS 8052-42-4)

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

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

MINERAL SPIRITS (CAS 64742-48-9)

QUARTZ (CAS 14808-60-7)

California Proposition 65



WARNING: WARNING: This product contains a chemical known to the State of California to cause cancer and

birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (CAS 14808-60-7) Listed: October 1, 1988

International Inventories

Country(s) or region	Inventory name 0	n 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 "Voc" indicates that all compos	control of this product comply with the inventory requirements administered by the gave	urning country(c)

^{*}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 10-30-2023

Version # 01

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

NFPA ratings Health: 1

Flammability: 2 Instability: 0

References ACGIH

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

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

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

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. Ergon Armor cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best

knowledge and experience currently available.

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

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).