## SAFETY DATA SHEET



1. Identification

**Product identifier** PENNCHEM™ 97 MEMBRANE PART A (ALL COLORS)

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

1-800-222-7122

number

**Normal work hours** 

1-877-982-7667

telephone number Website

www.ergonarmor.com

E-mail sds@ergon.com

**Emergency 24-hour** 

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

telephone number Information on

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

operation hours

# 2. Hazard(s) identification

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

**Label elements** 

**Hazard symbol** None.

Signal word Not applicable. **Hazard statement** Not applicable.

**Precautionary statement** 

**Prevention** Not applicable. Response Not applicable. Not applicable. **Storage Disposal** Not applicable.

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	%
Silica Powder (Quartz)		14808-60-7	0.6105
Other components below reportable levels			99.389499999773

SDS US 1/7

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### 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

Coughing. Direct contact with eyes may cause temporary irritation. Direct contact with skin may cause temporary irritation. Exposure may cause temporary irritation, redness, or discomfort.

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 Foam. Dry powder. Carbon dioxide (CO2). Extinguish with water fog.

Unsuitable extinguishing

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

media
Specific hazards arising from

Fire may produce irritating, corrosive and/or toxic gases.

the chemical

Special protective equipment and precautions for

firefighters

Fire fighting equipment/instructions

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.

protective clothing will only provide limited protection.

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. 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.

**General fire hazards** No unusual fire or explosion hazards noted.

### 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. For personal protection, see section 8 of the SDS.

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 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.

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Conditions for safe storage, including any incompatibilities

The pressure in sealed containers can increase under the influence of heat. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in tightly closed container. Keep container tightly closed. Use care in handling/storage.

# 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.

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components Type Value Form

Silica Powder (Quartz) (CAS 14808-60-7)

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

**PEL** 

Components Type Value Form

Silica Powder (Quartz) TWA 0.1 mg/m3 Respirable.

(CAS 14808-60-7)

2.4 mppcf Respirable.

Respirable dust.

0.05 mg/m3

**US. ACGIH Threshold Limit Values (TLV)** 

Components Type Value Form

Silica Powder (Quartz) TWA 0.025 mg/m3 Respirable fraction.

(CAS 14808-60-7)

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

Type

Value

Silica Powder (Quartz) IDLH 50 mg/m3

(CAS 14808-60-7)

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

Components Type Value Form

Silica Powder (Quartz) TWA 0.05 mg/m3 Respirable dust.

(CAS 14808-60-7)

**Biological limit values** No biological exposure limits noted for the ingredient(s).

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

**controls** occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

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

Skin protection

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

contact with forearms is likely wear gauntlet style gloves.

**Other** Wear appropriate chemical resistant clothing. Chemical resistant gloves.

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

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene** 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** Tan. Off-white.

**Physical state** Solid.

Form Solid. Paste.
Color Tan. Off-white.
Odor Slight Odor
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.

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Initial boiling point and

boiling range

212 °F (100 °C) estimated

Flash point

275.0 °F (135.0 °C) estimated

**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** 

400 °F (204.44 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Not explosive. **Explosive properties** 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. **Possibility of hazardous** Hazardous polymerization does not occur.

Conditions to avoid

reactions

Heat, flames and sparks. 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 Prolonged skin contact may cause temporary irritation. Eye contact Direct contact with eyes may cause temporary 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 Coughing. Exposure may cause temporary irritation, redness, or discomfort. Direct contact with

skin or eyes may cause temporary irritation.

#### Information on toxicological effects

**Acute toxicity** Not known.

Skin corrosion/irritation May cause defatting of the skin, but is neither an irritant nor a sensitizer.

Serious eye damage/eye

May cause temporary eye irritation.

irritation

#### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

Skin sensitization Irritating to skin.

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

mutagenic or genotoxic.

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

encapsulated form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica Powder (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Silica Powder (Quartz) (CAS 14808-60-7)

US. National Toxicology Program (NTP) Report on Carcinogens

Silica Powder (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

Based on available data, the classification criteria are not met. Reproductive toxicity

**Specific target organ toxicity** Not classified.

single exposure

Specific target organ toxicity

repeated exposure

Not classified.

**Aspiration hazard** Not classified.

**Chronic effects** Not expected to be hazardous by OSHA criteria. Prolonged inhalation may be harmful.

Prolonged exposure may cause chronic effects.

**Further information** Symptoms may be delayed.

# 12. Ecological information

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

aquatic life.

**Product Species Test Results** 

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**Aquatic** 

Acute

Crustacea EC50 Daphnia 53678.3438 mg/l, 48 hours estimated LC50 Fish 53677.4414 mg/l, 96 hours estimated Fish

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

**Bioaccumulative potential** No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** 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. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If

discarded, this product is considered a RCRA ignitable waste, D001. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

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

The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Waste from residues /

unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

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

Not regulated as dangerous goods.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### **IATA**

Not regulated as dangerous goods.

#### **TMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

**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 regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

**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)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Silica Powder (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** No

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Not regulated

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**

## **California Proposition 65**



WARNING: This product can expose you to Silica Powder (Quartz), which is 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

Silica Powder (Quartz) (CAS 14808-60-7) Listed: October 1, 1988

#### **International Inventories**

Country(s) or region Inventory name On inventory (yes/no)\*

Australia Australian Inventory of Industrial Chemicals (AICIS)

Canada Domestic Substances List (DSL) Yes

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
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

<sup>\*</sup>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

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

**Issue date** 01-16-2025

Version # 01

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

NFPA ratings Health: 1

Flammability: 1 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 information** This document has undergone significant changes and should be reviewed in its entirety.

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Yes