## SAFETY DATA SHEET



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or PENNGUARD HTS MEMBRANE PART B

designation of the mixture

**Registration number** 

**Synonyms** None.

**Issue date** 30-May-2014

Version number 03

**Revision date** 07-January-2016 Supersedes date 29-June-2015

1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Not available. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.

**Address** 2829 Lakeland Drive

Jackson, MS 39232

USA

1-800-222-7122 After hours telephone

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 operation

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

hours

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary** 

**Physical hazards** Not classified for physical hazards.

**Health hazards** Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** None known. Main symptoms Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Polydimethylsiloxane

**Hazard pictograms** None Signal word None.

**Hazard statements** 

May cause long lasting harmful effects to aquatic life. H413

**Precautionary statements** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

Material name: PENNGUARD HTS MEMBRANE PART B SDS FU

Store away from incompatible materials. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental label

information

Not applicable.

2.3. Other hazards None known.

# **SECTION 3: Composition/information on ingredients**

#### 3,2. Mixtures

**General information** 

**Chemical name** % CAS-No. / EC No. REACH Registration No. INDEX No. **Notes** 

Polydimethylsiloxane 30 - < 60 9016-00-6

Classification: **DSD:** N;R51/53

**CLP:** Aquatic Chronic 2;H411

Other components below reportable levels 54,9999999999

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

#### **SECTION 4: First aid measures**

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

protect themselves.

4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. 4.2. Most important Direct contact with eyes may cause temporary irritation.

symptoms and effects, both

acute and delayed

4.3. Indication of any immediate medical attention

and special treatment

needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

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

Unsuitable extinguishing

media

media

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

5.2. Special hazards arising

from the substance or

mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

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#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental

Avoid discharge into drains, water courses or onto the ground.

precautions

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Collect spillage. Following product recovery,

flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).

6.4. Reference to other

sections

For personal protection, see section 8. For waste disposal, see section 13.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of

the SDS).

incompatibilities 7.3. Specific end use(s)

Not available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

Austria.	MAK List,	OFL Ord	dinance (	GwV).	BGBL T	T. no.	184/	2001
Austria.	PIAIL FISC	OLL OIL	, <i>ээ</i> нан	O 44 4 //	DODI: I	<b>1</b> , 110.	TOT/	2001

Components	Туре	Value	Form
Silica (CAS 112945-52-5)	MAK	4 mg/m3	Inhalable fraction.
Belgium. Exposure Limit Value Components	s. Type	Value	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	

# Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	1 fibers/cm3	Respirable fraction.
		10 mg/m3 10 mg/m3	Inhalable fraction.
Silica (CAS 112945-52-5)	TWA	10 mg/m3 0,07 mg/m3	Inhalable fraction. Respirable fraction.

## Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Туре	Value	Form	
Calcium carbonate (CAS 471-34-1)	MAC	4 mg/m3	Respirable dust.	
		10 mg/m3	Total dust.	
Silica (CAS 112945-52-5)	MAC	6 mg/m3	Total dust.	
		2.4 ma/m3	Respirable dust.	

#### Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	туре	value			
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3			
Silica (CAS 112945-52-5)	TWA	2 mg/m3			
Czech Republic. OELs. Government Decree 361					
Components	Туре	Value	Form		
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Dust.		

Value

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Components

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Czech Republic. OELs. Governm Components	Туре	Value	Form
Silica (CAS 112945-52-5)	TWA	4 mg/m3	Dust.
Estonia. OELs. Occupational Exp September 2001)	oosure Limits of Hazardous S	Substances. (Annex of Regul	ation No. 293 of 18
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable dust.
Silica (CAS 112945-52-5)	TWA	10 mg/m3 2 mg/m3	Respirable dust.
Finland. Workplace Exposure Li		9,	
Components	Туре	Value	
Silica (CAS 112945-52-5)	TWA	5 mg/m3	
France. Threshold Limit Values	(VLEP) for Occupational Exp		e, INRS ED 984
Components	Туре	Value	
Calcium carbonate (CAS 471-34-1)	VME	10 mg/m3	
Germany. TRGS 900, Limit Valu Components	es in the Ambient Air at the \ Type	Workplace Value	Form
Silica (CAS 112945-52-5)	AGW	4 mg/m3	Inhalable fraction.
Greece. OELs (Decree No. 90/19 Components	999, as amended) Type	Value	Form
Calcium carbonate (CAS	TWA	5 mg/m3	Respirable.
471-34-1)		-	·
	a	10 mg/m3	Inhalable
Hungary. OELs. Joint Decree on Components	Type	ces Value	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	
Ireland. Occupational Exposure			_
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	4 mg/m3	Respirable dust.
Silica (CAS 11204E E2 E)	TWA	10 mg/m3 6 mg/m3	Total inhalable dust. Total inhalable dust.
Silica (CAS 112945-52-5)	IWA	2,4 mg/m3	Respirable dust.
Latvia. OELs. Occupational expo	sure limit values of chemica		•
Components	Туре	Value	
Calcium carbonate (CAS 471-34-1)	TWA	6 mg/m3	
Silica (CAS 112945-52-5)	TWA	1 mg/m3	
Norway. Administrative Norms Components	for Contaminants in the Wor Type	kplace Value	Form
Silica (CAS 112945-52-5)	TLV	1,5 mg/m3	Respirable dust.
Poland. MACs. Minister of Labouin Working Environment	ır and Social Policy Regardin		•
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Dust.
Portugal. VLEs. Norm on occupa Components	itional exposure to chemical Type	agents (NP 1796) Value	
<u> </u>			
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	

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Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents Components

Type

Value

Calcium carbonate (CAS TWA 10 mg/m3

471-34-1)

Silica (CAS 112945-52-5) TWA 0,3 mg/m3

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while

working (Official Gazette of the Republic of Slovenia)

ComponentsTypeValueFormSilica (CAS 112945-52-5)TWA4 mg/m3Inhalable fraction.

Switzerland. SUVA Grenzwerte am Arbeitsplatz Components Type

Components Type Value Form

Calcium carbonate (CAS TWA 3 mg/m3 Respirable dust.

471-34-1)

UK. EH40 Workplace Exposure Limits (WELs)

Value **Form** Components Calcium carbonate (CAS **TWA** 4 mg/m3 Respirable. 471-34-1) 4 mg/m3 Respirable dust. 10 mg/m3 Inhalable 10 mg/m3 Inhalable dust. TWA Silica (CAS 112945-52-5) 6 mg/m3 Inhalable dust. 2,4 mg/m3 Respirable dust.

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

**Recommended monitoring** 

procedures

Follow standard monitoring procedures.

**Derived no-effect level** 

(DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

**Appropriate engineering** 

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion

with the supplier of the personal protective equipment.

**Eye/face protection** If contact is likely, safety glasses with side shields are recommended.

Skin protection

**- Hand protection** For prolonged or repeated skin contact use suitable protective gloves.

**- Other** Wear suitable protective clothing.

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

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

**Hygiene measures**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.

**Environmental exposure** 

controls

Environmental manager must be informed of all major releases.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

**Appearance** Paste.

Physical state Not available.

Form Paste.
Colour Grey
Odour Slight Odor

Odour threshold Not available.

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pН Not available. Melting point/freezing point Not available. Initial boiling point and Not available.

boiling range

Flash point Not available. **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.

Vapour pressure Not available. Vapour density Not available. **Relative density** 1,43 g/ml

**Relative density temperature** 

15,56 °C (60 °F)

Solubility(ies)

Solubility (water) < 0,1 % Solubility (other) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature** Not available. **Viscosity Explosive properties** Not available. **Oxidizing properties** Not available.

No relevant additional information available. 9.2. Other information

# SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

#### **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

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

occupational exposure.

**Inhalation** Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Not available. Respiratory sensitisation

Skin sensitisation This product is not expected to cause skin sensitisation.

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

mutagenic or genotoxic.

Carcinogenicity Not available. Material name: PENNGUARD HTS MEMBRANE PART B

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Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** 

Not available.

Mixture versus substance

information

No information available.

Other information Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species **Test results** 

Polydimethylsiloxane (CAS 9016-00-6)

**Aquatic** 

Fish LC50 Channel catfish (Ictalurus punctatus) 2,36 - 4,15 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

**Partition coefficient** 

n-octanol/water (log Kow)

Not available.

12.6. Other adverse effects

Not available. **Bioconcentration factor (BCF)** No data available. 12.4. Mobility in soil 12.5. Results of PBT

and vPvB assessment Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste 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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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

disposal company.

Disposal Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

methods/information

Special precautions Dispose in accordance with all applicable regulations.

# **SECTION 14: Transport information**

## **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

14.7. Transport in bulk Not available. according to Annex II of

MARPOL 73/78 and the IBC

## **SECTION 15: Regulatory information**

Material name: PENNGUARD HTS MEMBRANE PART B

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

## Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Follow national regulation for work with chemical agents. 15.2. Chemical safety No Chemical Safety Assessment has been carried out.

assessment

#### **SECTION 16: Other information**

#### **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)	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

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

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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)

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).

**List of abbreviations** Not available. **References** Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

H411 Toxic to aquatic life with long lasting effects.

**Revision information** Product and Company Identification: Product and Company Identification

SECTION 2: Hazards identification: Hazard statements Physical & Chemical Properties: Multiple Properties

Regulatory Information: Safety Phrases

**GHS: Classification** 

**Training information** Follow training instructions when handling this material.

**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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