## SAFETY DATA SHEET



## 1. Identification

**Product identifier Penntrowel Water Cleanable Epoxy Grout Hardener** 

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

hours

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

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Skin corrosion/irritation Category 1

> Serious eye damage/eye irritation Category 2

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

**Label elements** 



Signal word Danger

**Hazard statement** Causes severe skin burns and eye damage. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Do not breathe dust or mists. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment see Section 4 of this SDS. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.

Store locked up.

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

Hazard(s) not otherwise

**Storage** 

classified (HNOC)

None known.

**Supplemental information** None.

Material name: Penntrowel Water Cleanable Epoxy Grout Hardener 6856 Version #: 02 Revision date: 09-26-2019 Issue date: 08-27-2019

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
TETRAETHYLENE PENTAMINE		112-57-2	40 - 50
DIMER ACID		61788-89-4	30 - 40

## 4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Move to fresh air. 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. Call a physician or poison control

center immediately. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Remove and isolate contaminated clothing and shoes. Immediately

> flush skin with plenty of water. Wash off with soap and plenty of water. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Call a POISON

CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical

advice/attention. Get medical attention if irritation develops and persists. Wash clothing separately

before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if **Eye contact** 

present and easy to do. Continue rinsing. Get medical attention immediately. Get medical attention

if irritation develops and persists.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Call a

> POISON CENTER or doctor/physician if you feel unwell. 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. If ingestion of a large amount does occur, call a

poison control center immediately. Get medical attention if symptoms occur.

**Most important** 

**General information** 

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

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

Irritation of eyes and mucous membranes. Irritant effects.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If you feel unwell, seek medical advice (show the label where

possible). Wash contaminated clothing before reuse.

Dry chemical, foam, carbon dioxide, water fog.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

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

Specific hazards arising from the chemical

Irritating and toxic gases or fumes may be released during a fire.

Special protective equipment and precautions for

firefighters

Wear suitable protective equipment.

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.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Remove sources of ignition. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Ensure adequate ventilation.

# Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Do not allow material to contaminate ground water system. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth or absorbent material then place into containers. 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 in original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

## **Environmental precautions**

## 7. Handling and storage

## Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Wear personal protective equipment. Do not use in areas without adequate ventilation. Wear positive pressure self-contained breathing apparatus (SCBA). When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash thoroughly after handling. Handle and open container with care. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Store in original tightly closed container. Keep container dry. Store in a closed container away from incompatible materials. Keep out of the reach of children. Use care in handling/storage. Keep in a cool, well-ventilated place. Store in accordance with local/regional/national/international regulation. Keep away from food, drink and animal feedingstuffs.

# 8. Exposure controls/personal protection

## **Occupational exposure limits**

US. Workplace Environmental Ex Components	xposure Level (WEEL) Guides Type	Value	Form
TETRAETHYLENE PENTAMINE (CAS 112-57-2)	TWA	5 mg/m3	Aerosol.
		1 ppm	Aerosol.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

#### **US WEEL Guides: Skin designation**

TETRAETHYLENE PENTAMINE (CAS 112-57-2)

Can be absorbed through the skin.

Appropriate engineering

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

# controls

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear eye/face protection. Chemical goggles are recommended. Wear

safety glasses with side shields (or goggles). Face-shield. Not normally needed.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

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

**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. Do not get in eyes, on skin, on clothing. Wash hands after handling and before eating. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

**Appearance** Clear brown liquid.

Physical state Liquid.
Form Liquid.
Color Brown
Odor Ammonia.

**Odor threshold** Not available. Ηq Not available.

Melting point/freezing point -22 °F (-30 °C) estimated Initial boiling point and 212 °F (100 °C) estimated

boiling range

Flash point 266.0 °F (130.0 °C) **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.

0.000005 hPa estimated Vapor pressure

Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** 610 °F (321.11 °C) estimated

**Decomposition temperature** Not available. **Viscosity** 300 cP @25°C

Other information

**Density** 0.45 g/cm3 estimated

Specific gravity 0.45 estimated VOC 20 % estimated

10. Stability and reactivity

Reactivity Not available.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

Not available.

**Conditions to avoid** Avoid static electricity discharge. **Incompatible materials** Strong acid, strong oxidizer and epoxy. **Hazardous decomposition** In fire toxic fumes may be generated.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system

Skin contact Causes severe skin burns and eye damage.

Eye contact Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

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

Information on toxicological effects

**Acute toxicity** Not available. **Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.
Skin sensitization Not available.
Germ cell mutagenicity Not available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

Reproductive toxicity Not available.

Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity

- repeated exposure

Not available.

**Aspiration hazard** Not available.

12. Ecological information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

TETRAETHYLENE PENTAMINE 1.503

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

**Disposal instructions**Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in

accordance with local/regional/national/international regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the

time of disposal, whether the product meets RCRA criteria for hazardous waste.

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). Not applicable.

**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.

14. Transport information

DOT

**UN number** UN1760

**UN proper shipping name** Corrosive liquids, n.o.s.

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group III

Special precautions for

user

Not available.

**Special provisions** IB3, T7, TP1, TP28

Packaging exceptions 154
Packaging non bulk 203

**Packaging bulk** 241

**IATA** 

**UN** number UN1760

**UN proper shipping name** Corrosive liquid, n.o.s.

Transport hazard class(es)

Class 8 **Subsidiary risk Packing group** III **Environmental hazards** No. **ERG Code** 8L

Special precautions for

user

Other information

Passenger and cargo Allowed with restrictions.

Not available.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN1760 **UN number** 

**UN** proper shipping name CORROSIVE LIQUID, N.O.S.

Transport hazard class(es)

**Class** 8 **Subsidiary risk Packing group** III**Environmental hazards** 

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

user

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

**DOT** 



## IATA; IMDG



## 15. Regulatory information

**US federal regulations** 

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 1910.1001-1052)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## **SARA 302 Extremely hazardous substance**

Not listed.

Classified hazard Skin corrosion or irritation

**categories** Serious eye damage or eye irritation

#### 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)

#### **International Inventories**

Inventory name	On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)	Yes
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan Chemical Substance Inventory (TCSI)	Yes
Toxic Substances Control Act (TSCA) Inventory	Yes
	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS) Taiwan Chemical Substance Inventory (TCSI)

<sup>\*</sup>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
 08-27-2019

 Revision date
 09-26-2019

Version # 02

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

**NFPA ratings** Health: 3

Flammability: 1 Instability: 0

**References** ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

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

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

SDS US

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).

#### **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.

#### **Revision information**

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

GHS: Classification