SAFETY DATA SHEET



1. Identification

Product identifier Penntrowel Water Cleanable Grout Hardener (29443-R)

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 Acute toxicity, inhalation Category 2

> Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 Reproductive toxicity (fertility) Category 2

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

Label elements



Signal word

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled.

Suspected of damaging the unborn child.

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. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Use personal protective equipment as required.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off

immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF exposed or concerned:

Get medical advice/attention.

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

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

Hazard(s) not otherwise classified (HNOC)

This product contains a component that is toxic by inhalation when aerosolized or sprayed. Please refer to Section 11 of the SDS for toxicity information. Review the toxicity information against your intended use. If the product is not being aerosolized or sprayed, the inhalation toxicity may not be applicable. May cause sensitization by skin contact. Corrosive. Very toxic by inhalation.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE	ON	68953-36-6	>25%
2,2'-IMINODI(ETHYLAMINE)		111-40-0	<15%
4,4'-ISOPROPYLIDENEDIPHENOL		80-05-7	<10%
TETRAETHYLENE PENTAMINE		112-57-2	<2.5%

4. First-aid measures

Inhalation Move to fresh air.

Skin contact Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated

clothing before reuse. Wash off immediately with plenty of water.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyelids widely. If irritation persists: Continue flushing during transport to hospital. Take along these

instructions.

Ingestion Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not

induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Asthma. Eye disease. Kidney disorders. Liver disorders. Skin disorders. Allergies.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

General information Get medical attention. If breathing has stopped or is labored, give assisted respirations.

Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin

cardiopulmonary resuscitation immediately.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Alcohol resistant foam. Carbon dioxide (CO2). Dry chemicals. Dry sand. Limestone powder.

Not available.

Specific hazards arising from

the chemical

Upon decomposition, this product may yield poisonous gases including oxides of nitrogen, hydrogen gas and ammonia. Material may form irritating and toxic gaseous oxides at high temperatures. Combustion may form carbon monoxide. Decomposition of this product may emit oxides of

nitrogen.

Special protective equipment and precautions for

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.

Fire fighting equipment/instructions

Avoid contact with skin. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. NOTE! Use air-supplied respirators to protect against gases/fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Emergency personnel need self-contained breathing equipment. Wear suitable protective clothing. Immediately evacuate personnel to safe areas.

Methods and materials for containment and cleaning up

Environmental precautions

Shut off leaks if without risk. This material and its container must be disposed of as hazardous waste. Clean up in accordance with all applicable regulations.

Do not allow to enter drains, sewers or watercourses. Use appropriate containment to avoid

environmental contamination.

7. Handling and storage

Precautions for safe handling

Do not breathe spray. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Avoid contact with skin and eyes. Avoid eating, drinking and smoking when using the product. Wear necessary protective equipment.

Conditions for safe storage, including any incompatibilities

Do not store near acids. Keep from contact with oxidizing materials. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0)	TWA	1 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards
Components Type

2,2'-IMINODI(ETHYLAMINE) TWA 4 mg/m3 (CAS 111-40-0)

1 ppm

Value

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	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 - California OELs: Skin designation

2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0) Skin designation applies.

US ACGIH Threshold Limit Values: Skin designation

2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0) Can be absorbed through the skin.

US WEEL Guides: Skin designation

TETRAETHYLENE PENTAMINE (CAS 112-57-2)

Can be absorbed through the skin.

Appropriate engineering controls

Eye wash facilities and emergency shower must be available when handling this product. Use explosion-proof ventilation equipment to stay below exposure limits. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles and face shield are recommended.

Skin protection

Hand protection Butyl rubber. Nitrile rubber. Neoprene gloves. PVC disposable gloves. Impervious gloves. If

prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with

forearms is likely, wear gauntlet style gloves.

Other Impervious clothing, gloves and minimum 8 inches face shield. Plastic gloves and boots. Complete

suit protecting against chemicals.

Respiratory protection When spraying use suitable air-supplied respirator.

Thermal hazards Not available.

General hygieneAlways observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants.

before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Provide eyewash station and safety shower. Keep from contact with clothing and other combustible materials. Remove and wash contaminated

clothing promptly.

9. Physical and chemical properties

Appearance Amber Liquid

Physical state Liquid.

Form Not available.
Color Not available.
Odor Ammoniacal
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and

boiling range

> 374 °F (> 190 °C) estimated

Flash point 259.0 °F (126.1 °C) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit -

upper (%)

Not available.

Not available.

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressure < 5.17 mm Hg @70°F (21°C) estimated

Vapor density Not available.

Relative density 0.98 estimated

Solubility(ies)

Solubility (water)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 61.18 lb/ft3 estimated

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Not available.

Conditions to avoidNot available. **Incompatible materials**Not available.

Hazardous decomposition

products

Nitric Acid. Ammonia. Nitrogen oxides (NOx). Nitrogen compounds. Carbon monoxide. Carbon dioxide. Aldehydes. Hydrocarbon fragments. Nitrogen oxide can react with water vapors to form corrosive nitric acid. Oxides of silicon. Hydrocarbon fragments. Nitrosamine. Chlorine.

11. Toxicological information

Information on likely routes of exposure

Inhalation Toxic if inhaled. May cause irritation to the respiratory system. Review toxicity information agains:

your intended use.

Skin contact Causes skin burns.

Eye contact Causes eye burns. May cause blindness.

Ingestion May be harmful if swallowed and enters airways. Irritating to mouth, throat and stomach

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity

Components **Species Test Results**

2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0)

Acute

Oral

LD50 Rat 1080 mg/kg

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

Acute

Oral

LD50 Rat 3300 mg/kg

TETRAETHYLENE PENTAMINE (CAS 112-57-2)

Acute **Dermal**

LD50 Rabbit 0.66 g/kg

Oral

LD50 Rat 2.1 g/kg

Skin corrosion/irritation Not available.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available. Skin sensitization May cause irritation.

Germ cell mutagenicity Contains a substance which may have a mutagenic effect.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

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

Not regulated.

Reproductive toxicity Not available. Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity Not available.

- repeated exposure

Not available. **Aspiration hazard**

12. Ecological information

Ecotoxicity

Product Species Test Results

Penntrowel Water Cleanable Grout Hardener (29443-R)

Aquatic

Crustacea EC50 Daphnia 92 mg/l, 48 hours estimated
Fish LC50 Fish 52.5877 mg/l, 96 hours estimated

Components Species Test Results

2,2'-IMINODI(ETHYLAMINE) (CAS 111-40-0)

Aquatic

Fish LC50 Guppy (Poecilia reticulata) 1014 mg/l, 96 hours

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 9.2 - 11.4 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 3.6 - 5.4 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

4,4'-ISOPROPYLIDENEDIPHENOL 3.32
TETRAETHYLENE PENTAMINE 1.503

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructions Not available. **Hazardous waste code** Not regulated.

Waste from residues /

unused products

Avoid discharge into water courses or onto the ground.

Contaminated packaging Dispose of container and unused contents in accordance with federal, state, and local

requirements.

Not available.

14. Transport information

DOT

UN number UN2735

UN proper shipping name Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s.

Transport hazard class(es)
Class 8
Subsidiary risk Label(s) 8
Packing group II

Special precautions for

user

Special provisions B2, IB2, T11, TP1, TP27

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN2735

UN proper shipping name Amines, liquid, corrosive, n.o.s.

Transport hazard class(es)

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

Special precautions for Not available.

user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN2735

UN proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

Transport hazard class(es)

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

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

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.

TSCA Chemical Action Plans, Chemicals of Concern

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7) Bisphenol A Action Plan

CERCLA Hazardous Substance List (40 CFR 302.4)

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7) Listed.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 No

Hazardous chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
4,4'-ISOPROPYLIDENEDIPHENOL	80-05-7	10

Other federal regulations

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

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

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))

4,4'-ISOPROPYLIDENEDIPHENOL (CAS 80-05-7)

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)	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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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)

16. Other information, including date of preparation or last revision

Issue date 07-21-2017

Version # 01

NFPA ratings Health: 3

Flammability: 1 Instability: 0

Disclaimer Not available.

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).