

**1. Identification**
**Product identifier** **PENNCHEM MORTAR INITIATOR**
**Other means of identification** Not available.

**Recommended use** Not available.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**
**Manufacturer**

|   |   |
|---|---|
| <b>Company Name</b>                       | ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.           |
| <b>Address</b>                            | 2829 Lakeland Drive<br>Jackson, MS 39232<br>USA                     |
| <b>After hours telephone number</b>       | 1-800-222-7122  |
| <b>Normal work hours telephone number</b> | 1-877-982-7667  |
| <b>Website</b>                            | www.ergonarmor.com  |
| <b>E-mail</b>                             | sds@ergon.com   |
| <b>Emergency 24-hour telephone number</b> | CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887 |
| <b>Information on operation hours</b>     | 8:00 a.m. to 5:00 p.m.  |

**2. Hazard(s) identification**
**Physical hazards** Flammable liquids Category 4

**Health hazards** Acute toxicity, oral Category 3

Acute toxicity, dermal Category 3

Acute toxicity, inhalation Category 2

Specific target organ toxicity, repeated exposure Category 2

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 1

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Not available.

**Hazard statement** Fatal if inhaled. Toxic if swallowed. Toxic in contact with skin. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

**Prevention** Observe good industrial hygiene practices. Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Avoid release to the environment. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing.

**Response** Wash hands after handling. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see this label). IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Rinse mouth. Collect spillage.

**Storage** Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** Not applicable.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name      | Common name and synonyms | CAS number | %   |
|--------------------|--------------------------|------------|-----|
| N,N-DIETHYLANILINE |                          | 91-66-7    | 100 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.   |
| <b>Methods and materials for containment and cleaning up</b>               | <p>This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.</p> <p>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. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

### 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Observe good industrial hygiene practices.  |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

### 8. Exposure controls/personal protection

|                                     |   |
|-------------------------------------|---|
| <b>Occupational exposure limits</b> | No exposure limits noted for ingredient(s). |
|-------------------------------------|---|

|  |   |
|--|---|
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |
| <b>Appropriate engineering controls</b>                                      | 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. |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | If contact is likely, safety glasses with side shields are recommended.   |
| <b>Hand protection</b>   | For prolonged or repeated skin contact use suitable protective gloves.  |
| <b>Skin protection</b>   |   |
| <b>Other</b>   | Wear suitable protective clothing.  |
| <b>Respiratory protection</b>  | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b>  | 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

|   |                                  |
|---|----------------------------------|
| <b>Physical state</b>                               | Liquid.                          |
| <b>Form</b>   | Liquid.                          |
| <b>Color</b>  | Not available.                   |
| <b>Odor</b>   | Not available.                   |
| <b>Odor threshold</b>                               | Not available.                   |
| <b>pH</b>   | Not available.                   |
| <b>Melting point/freezing point</b>                 | -37.84 °F (-38.8 °C) estimated   |
| <b>Initial boiling point and boiling range</b>      | 421.3 °F (216.28 °C) estimated   |
| <b>Flash point</b>                                  | 185.0 °F (85.0 °C) estimated     |
| <b>Evaporation rate</b>                             | Not available.                   |
| <b>Flammability (solid, gas)</b>                    | Not available.                   |
| <b>Upper/lower flammability or explosive limits</b> |                                  |
| <b>Flammability limit - lower (%)</b>               | Not available.                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                   |
| <b>Explosive limit - lower (%)</b>                  | Not available.                   |
| <b>Explosive limit - upper (%)</b>                  | Not available.                   |
| <b>Vapor pressure</b>                               | 0.18 hPa estimated               |
| <b>Vapor density</b>                                | Not available.                   |
| <b>Relative density</b>                             | Not available.                   |
| <b>Solubility(ies)</b>                              |                                  |
| <b>Solubility (water)</b>                           | Not available.                   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                   |
| <b>Auto-ignition temperature</b>                    | 1166 °F (630 °C) estimated       |
| <b>Decomposition temperature</b>                    | Not available.                   |
| <b>Viscosity</b>                                    | Not available.                   |
| <b>Other information</b>                            |                                  |
| <b>Density</b>                                      | 0.93 g/cm <sup>3</sup> estimated |
| <b>Flammability class</b>                           | Combustible IIIA estimated       |
| <b>Specific gravity</b>                             | 0.93 estimated                   |

## 10. Stability and reactivity

|                           |   |
|---------------------------|---|
| <b>Reactivity</b>         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b> | Material is stable under normal conditions.   |

|   |  |
|---|--|
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization can occur.  |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Peroxides. Phenols.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                     |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Ingestion</b>    | Toxic if swallowed.                                      |
| <b>Inhalation</b>   | Fatal if inhaled.  |
| <b>Skin contact</b> | May be irritating to the skin.                           |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

| Product                   | Species | Test Results        |
|---------------------------|---------|---------------------|
| PENNCHEM MORTAR INITIATOR |         |                     |
| <b>Acute</b>              |         |                     |
| <i>Oral</i>               |         |                     |
| LD50                      | Rat     | 782 mg/kg estimated |
| <i>Other</i>              |         |                     |
| LD50                      | Rat     | 420 mg/kg estimated |
| Components                | Species | Test Results        |

N,N-DIETHYLANILINE (CAS 91-66-7)

#### **Acute**

*Oral*

LD50 Rat 782 mg/kg

*Other*

LD50 Rat 420 mg/kg

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

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

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

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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

Not listed.

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

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** Central nervous system.

**Aspiration hazard** Not available.

## 12. Ecological information

**Ecotoxicity** 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.

| Product                          | Species |                                      | Test Results                  |
|----------------------------------|---------|--------------------------------------|-------------------------------|
| PENNCHEM MORTAR INITIATOR        |         |                                      |                               |
| Crustacea                        | EC50    | Daphnia                              | 1 mg/l, 48 hours estimated    |
| Fish                             | LC50    | Fish                                 | 16.4 mg/l, 96 hours estimated |
| Components                       | Species |                                      | Test Results                  |
| N,N-DIETHYLANILINE (CAS 91-66-7) |         |                                      |                               |
| <b>Aquatic</b>                   |         |                                      |                               |
| Crustacea                        | EC50    | Water flea (Daphnia magna)           | 1 - 1.6 mg/l, 48 hours        |
| Fish                             | LC50    | Fathead minnow (Pimephales promelas) | 16.4 mg/l, 96 hours           |

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

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

N,N-DIETHYLANILINE 3.31

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

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** 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** 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** UN2432

**UN proper shipping name** N,N-Diethylaniline, MARINE POLLUTANT

**Transport hazard class(es)**

**Class** 6.1(PGIII)

**Subsidiary risk** -

**Label(s)** 6.1

**Packing group** III

**Environmental hazards**

**Marine pollutant** Yes

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

**Special provisions** IB3, T4, TP1

**Packaging exceptions** 153

**Packaging non bulk** 203

**Packaging bulk** 241

#### IATA

**UN number** UN2432

**UN proper shipping name** N,N-Diethylaniline

**Transport hazard class(es)**

**Class** 6.1(PGIII)

**Subsidiary risk** -

**Packing group** III

**Environmental hazards** No.

**ERG Code** 6L

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

### Other information

**Passenger and cargo aircraft** Allowed.  
**Cargo aircraft only** Allowed.

### IMDG

**UN number** UN2432  
**UN proper shipping name** N,N-DIETHYLANILINE  
**Transport hazard class(es)**  
**Class** 6.1(PGIII)  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-A  
**Special precautions for user** 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 available.

### DOT



### IATA; IMDG



### Marine pollutant



## 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

N,N-DIETHYLANILINE (CAS 91-66-7) Listed.

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

Not listed.

## 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 Hazardous chemical** No

### 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 (SDWA)** Not regulated.

## US state regulations

### US. Massachusetts RTK - Substance List

N,N-DIETHYLANILINE (CAS 91-66-7)

### US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

### US. Pennsylvania RTK - Hazardous Substances

N,N-DIETHYLANILINE (CAS 91-66-7)

### US. Rhode Island RTK

N,N-DIETHYLANILINE (CAS 91-66-7)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## 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                    |
| 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)

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

**Issue date** 08-03-2015  
**Revision date** 01-19-2016  
**Version #** 02

**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**

Product and Company Identification: Product and Company Identification