

**1. Product and Company Identification**

**Material name** AE-P (East)  
**Version #** 01  
**Revision date** 02-06-2012  
**CAS #** Mixture  
**Manufacturer**  
**Manufacturer:** Ergon Asphalt & Emulsions, Inc.  
**Address:** P O Box 1639  
 Jackson MS 39215-1639  
**Contact Name:** Mary Ellen Snow  
**Telephone:** 601-933-3540; 24-hour Customer Service 1-800-222-7122  
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**24 hour Emergency** CHEMTREC: North America 1-800-424-9300; International 1-703-527-3887

**2. Hazards Identification**

**Emergency overview** WARNING  
 Irritating to eyes, respiratory system and skin. Material may be hot. Prolonged exposure may cause chronic effects.

**Potential health effects**

**Routes of exposure** Inhalation. Skin contact. Eye contact.

**Eyes** Severely irritating to eyes. A significant thermal hazard under normal usage due to high temperatures required for application.

**Skin** Moderately irritating. Hot asphalt will cause severe burns. May lead to photosensitization and drying of the skin.

**Inhalation** Product is irritating to mucous membranes and respiratory tract. Inhalation of product may produce symptoms such as headache, dizziness, nausea, vomiting, and loss of coordination.

**Ingestion** Irritating to mucous membranes and gastrointestinal tract. May cause thermal burns. Ingestion of this product may cause nausea, vomiting and diarrhea.

**Target organs** Mucous membranes. Skin. and Digestive tract.

**Chronic effects** Prolonged and repeated skin contact may cause dermatitis, photosensitization, and melanosis. Evidence from animal studies suggests that asphalt left on the skin for long periods of time may result in local carcinomas, but there have been no reports of such effects on human skin that can be attributed to asphalt alone.

**Signs and symptoms** Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation.

**Potential environmental effects** Ecological injuries are not known or expected under normal use.

**3. Composition / Information on Ingredients**

Hazardous components	CAS #	Percent
ASPHALT	8052-42-4	20 - 50
PROPRIETARY INGREDIENTS	Mixture	1 - 3
Non-hazardous components	CAS #	Percent
WATER	7732-18-5	50 - 70
HYDROCHLORIC ACID	7647-01-0	0 - 1

## 4. First Aid Measures

### First aid procedures

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

#### Skin contact

If molten asphalt strikes exposed skin, cool immediately by quenching with cold water. Lotion or hand cream may aid in the removal of asphalt. If clothing sticks to the skin, do not remove. Wash contact areas with soap and water. If needed, seek medical attention.

#### Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

#### Ingestion

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately. If ingestion of a large amount does occur, call a poison control center immediately.

### Notes to physician

Symptoms may be delayed.

### General advice

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

## 5. Fire Fighting Measures

### Flammable properties

This product may ignite when sufficient heat is applied. Check for combustible vapors prior to and during welding or torch cutting on vessels or tank. It has been found that in hot storage tanks low flash substances may accumulate in the vapor space. Keep ignition sources away from tank vents and prevent accumulation or pyrophoric iron sulfide.

### Extinguishing media

#### Suitable extinguishing media

Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### Protection of firefighters

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

### Fire fighting equipment/instructions

Use of foam or water may cause frothing. Do not release runoff from fire control methods to sewers or waterways. In the event of fire, cool tanks with water spray.

### Specific methods

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

### Hazardous combustion products

Carbon monoxide and carbon dioxide. Sulfur dioxide.

## 6. Accidental Release Measures

### Personal precautions

Keep unnecessary personnel away. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

### Methods for containment

Ventilate area and avoid breathing vapors or mist. Prevent entry into waterways, sewer, basements or confined areas. Remove sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

### Methods for cleaning up

Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Absorb spill with vermiculite or other inert material.

## 7. Handling and Storage

### Handling

Avoid contact with molten material. Trace amounts of hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Do not add water to hot product. This may result in frothing of the mixture causing hot asphalt to overflow the container.

### Storage

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
ASPHALT (8052-42-4)	TWA	0.5 mg/m <sup>3</sup>	Inhalable fraction.
HYDROCHLORIC ACID (7647-01-0)	Ceiling	2 ppm	

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

Components	Type	Value
HYDROCHLORIC ACID (7647-01-0)	Ceiling	7 mg/m <sup>3</sup>
		5 ppm

### 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.

### Personal protective equipment

#### Eye / face protection

Chemical goggles and face shield are recommended.

#### Skin protection

Plastic or rubber gloves, apron and boots. Avoid contact with the skin. Wear suitable protective clothing.

#### General hygiene considerations

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 & Chemical Properties

Appearance	Brown to black in color.
Physical state	Liquid.
Form	Viscous Liquid.
Color	Brown - black
Odor	Tar-like
Odor threshold	Not available.
pH	2 - 6
Vapor pressure	23.76 mm Hg @20 C
Vapor density	> 1
Boiling point	212 °F (100 °C)
Melting point/Freezing point	Not available.
Solubility (water)	Slightly soluble
Specific gravity	0.9 - 1.1
Relative density	> 1
Flash point	> 212 °F (> 100 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Evaporation rate	< 1
Viscosity	10 - 700 SFS
Percent volatile	< 2 %
Other data	
Density	8.3 - 8.5 lb/gal
Flammability class	Combustible IIIB

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions.
Conditions to avoid	Do not overheat product.

<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide, and water. Combustion products may include sulfur oxides and hydrogen sulfide. Nitrogen oxides (NOx).
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Components	Test Results
HYDROCHLORIC ACID (7647-01-0)	Acute Dermal LD50 Mouse: 1449 mg/kg Acute Inhalation LC50 Mouse: 1108 mg/l 1 Hours Acute Inhalation LC50 Rat: 3124 mg/l 1 Hours Acute Oral LD50 Rabbit: 900 mg/kg Acute Other LD50 Mouse: 1449 mg/kg
<b>Local effects</b>	Irritating to respiratory system.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>ACGIH Carcinogens</b>	
ASPHALT (CAS 8052-42-4)	A4 Not classifiable as a human carcinogen.
HYDROCHLORIC ACID (CAS 7647-01-0)	A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
ASPHALT (CAS 8052-42-4)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.
HYDROCHLORIC ACID (CAS 7647-01-0)	3 Not classifiable as to carcinogenicity to humans.

## 12. Ecological Information

### Ecotoxicological data

Components	Test Results
HYDROCHLORIC ACID (7647-01-0)	LC50 Western mosquitofish ( <i>Gambusia affinis</i> ): 282 mg/l 96 hours

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

<b>Persistence and degradability</b>	Not available.
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## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose of waste and residues in accordance with local authority requirements.
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## 14. Transport Information

### DOT

Not regulated as dangerous goods.

## 15. Regulatory Information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.
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### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

HYDROCHLORIC ACID (CAS 7647-01-0)	0.0 KG_W
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### DEA Essential Chemical Code Number

HYDROCHLORIC ACID (CAS 7647-01-0)	6545
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### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

HYDROCHLORIC ACID (CAS 7647-01-0)	20 %WV
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### DEA Exempt Chemical Mixtures Code Number

HYDROCHLORIC ACID (CAS 7647-01-0)	6545
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### US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

HYDROCHLORIC ACID (CAS 7647-01-0)	5000 LBS
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**US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity**

HYDROCHLORIC ACID (CAS 7647-01-0) 500 LBS

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

HYDROCHLORIC ACID (CAS 7647-01-0) 1.0 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

HYDROCHLORIC ACID (CAS 7647-01-0) Listed.

**CERCLA (Superfund) reportable quantity**

HYDROCHLORIC ACID: 5000

**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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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)

**State regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990 Carcinogenic.

**US - New Jersey RTK - Substances: Listed substance**

ASPHALT (CAS 8052-42-4) Listed.

HYDROCHLORIC ACID (CAS 7647-01-0) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

ASPHALT (CAS 8052-42-4) Listed.

HYDROCHLORIC ACID (CAS 7647-01-0) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Special hazard**

ASPHALT (CAS 8052-42-4) Special hazard.

**16. Other Information**

**HMIS® ratings**

Health: 2  
 Flammability: 1  
 Physical hazard: 0

**NFPA ratings**

Health: 2  
 Flammability: 1  
 Instability: 0

**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.

**Issue date**

Not available.