

1. Product and Company Identification

Material name CPEM1
Version # 01
Revision date 09-21-2011
CAS # Mixture
Manufacturer: Ergon Asphalt & Emulsions, Inc.
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2. Hazards Identification

Potential health effects

Routes of exposure Inhalation.
Eyes Contact with eyes may cause irritation. Prolonged or repeated exposure may cause severe irritation.
Skin Severely irritating to skin. Can cause moderate injury (reddening and swelling). May lead to photosensitization and drying of the skin. Contact with hot material can cause thermal burns which may result in permanent damage.
Inhalation May be irritating. Prolonged inhalation may be harmful. Exposure to fumes (from heating product) may be mildly irritating to the nose and throat. In case of persistent throat irritation or coughing: Seek medical attention and take along these instructions.
Ingestion Health injuries are not known or expected under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Signs and symptoms Irritation of nose and throat. Irritation of eyes and mucous membranes.

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	60 - 70
Non-hazardous components	CAS #	Percent
HYDROCHLORIC ACID	7647-01-0	0 - 1
PROPRIETARY INGREDIENTS	N/A	0 - 5
WATER	7732-18-5	25 - 35
Other components below reportable levels		0.0001 - 20

4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.
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. If ingestion of a large amount does occur, call a poison control center immediately.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Specific methods	In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

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	Dike far ahead of spill for later disposal. 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

ACGIH

Components	Type	Value	Form
ASPHALT (8052-42-4)	TWA	0.5000 mg/m ³	Inhalable fraction.
HYDROCHLORIC ACID (7647-01-0)	Ceiling	2.0000 ppm	

U.S. - OSHA

Components	Type	Value
HYDROCHLORIC ACID (7647-01-0)	Ceiling	5.0000 ppm 7.0000 mg/m ³

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 are recommended.
Skin protection	Plastic or rubber gloves and boots.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Brown to black in color.
Color	Black
Odor	Tar-like
Odor threshold	Not available.

Physical state	Liquid.
Form	Liquid.
pH	2 - 4
Melting point	Not available.
Freezing point	Not available.
Boiling point	212 °F (100 °C)
Flash point	400 °F (204.4 °C)
Evaporation rate	< 1
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	< 1 mm Hg @ 20 C
Vapor density	> 1
Specific gravity	1.01
Relative density	Not available.
Solubility (water)	Slightly Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	> 700 °F (> 371.1 °C)
Decomposition temperature	Not available.
VOC	Not available.
Percent volatile	< 2 %

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Hydrogen chloride. Irritants. Sulfur oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product

CPEM1 (Mixture)

Test Results

Acute Inhalation LC50 Monkey: 209 mg/l estimated
 Acute Inhalation LC50 Mouse: 7.1641 mg/l estimated
 Acute Inhalation LC50 Rat: 113 mg/l estimated

Components

HYDROCHLORIC ACID (7647-01-0)

Test Results

Acute Dermal LD50 Mouse: 1449 mg/kg
 Acute Inhalation LC50 Mouse: 1108 mg/l 1.00 Hours
 Acute Inhalation LC50 Rat: 3124 mg/l 1.00 Hours
 Acute Oral LD50 Rabbit: 900 mg/kg
 Acute Other LD50 Mouse: 1449 mg/kg

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

Chronic effects Prolonged inhalation may be harmful.

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

ACGIH Carcinogens

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

Product

CPEM1 (Mixture)

Test Results

LC50 Fish: 15.99 mg/l 96.00 Hours estimated

Components

HYDROCHLORIC ACID (7647-01-0)

Test Results

LC50 Western mosquitofish (*Gambusia affinis*): 282 mg/l 96.00 Hours

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS

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

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Water Act (CWA) Hazardous substance

Inventory status

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

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
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 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

ASPHALT (CAS 8052-42-4) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

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

US - New Jersey Community RTK (EHS Survey): Reportable threshold

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

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

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

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 09-21-2011