

1. Product and Company Identification

Material name CMS-1PS
Version # 01
Revision date 09-29-2011
CAS # Mixture
Manufacturer: Ergon Asphalt & Emulsions, Inc.
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 Jackson MS 39215-1639
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2. Hazards Identification

Emergency overview May cause irritation of respiratory tract. Material may be hot.
Potential health effects
Routes of exposure Inhalation.
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 Vapors may irritate throat and respiratory system and cause coughing. Prolonged inhalation may be harmful. Prolonged exposure may result in dizziness or nausea
Ingestion Irritating to mucous membranes and gastrointestinal tract. May cause thermal burns.
Potential environmental effects Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT	64742-04-7	0 - 17
ASPHALT	8052-42-4	40 - 55
Non-hazardous components	CAS #	Percent
HYDROCHLORIC ACID	7647-01-0	0 - 1
WATER	7732-18-5	25 - 35
Other components below reportable levels		0.0001 - 20

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.

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 (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific methods	In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.
Hazardous combustion products	Decomposition of this product may yield oxides of sulfur and nitrogen. Hydrogen sulfide Carbon monoxide and carbon 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	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/m3	Inhalable fraction.
EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT (64742-04-7)	STEL	10.0000 mg/m3	Mist.
HYDROCHLORIC ACID (7647-01-0)	TWA	5.0000 mg/m3	Mist.
	Ceiling	2.0000 ppm	

U.S. - OSHA

Components	Type	Value
HYDROCHLORIC ACID (7647-01-0)	Ceiling	5.0000 ppm
		7.0000 mg/m3

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.
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Personal protective equipment

Eye / face protection	Wear chemical goggles and face shield.
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Skin protection	Wear chemical protective equipment that is specifically recommended by the manufacturer. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Plastic or rubber gloves, apron and boots.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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.
Color	Black.
Odor	Tar-like
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
pH	2 - 5
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 - 1.1
Relative density	Not available.
Solubility (water)	Miscible
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	Stable under normal temperature conditions.
Conditions to avoid	Do not overheat product.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen sulfide.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

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

Components

HYDROCHLORIC ACID (7647-01-0)

Test Results

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.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC

A2 Suspected human carcinogen.

DISTILLATE SOLVENT (CAS 64742-04-7)

HYDROCHLORIC ACID (CAS 7647-01-0)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4)

2B Possibly carcinogenic to humans.

HYDROCHLORIC ACID (CAS 7647-01-0)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

US NTP Report on Carcinogens: Known carcinogen

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC

Known carcinogen.

DISTILLATE SOLVENT (CAS 64742-04-7)

12. Ecological Information

Ecotoxicological data

Components

HYDROCHLORIC ACID (7647-01-0)

Test Results

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

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

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

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

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
Korea	Existing Chemicals List (ECL)	No
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.

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC Listed.

DISTILLATE SOLVENT (CAS 64742-04-7)

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.

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