

## 1. Product and Company Identification

**Material name** CRS-1H  
**Version #** 03  
**Revision date** 11-22-2011  
**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  
**E-mail:** mary.snow@ergon.com  
**CHEMTREC:** 1-800-424-9300

## 2. Hazards Identification

**Emergency overview** Irritating to skin. Prolonged exposure may cause chronic effects.  
**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Contact may irritate or burn eyes.  
**Skin** Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.  
**Inhalation** May be irritating. Prolonged inhalation may be harmful.  
**Ingestion** Do not ingest.  
**Target organs** Eyes. Skin. Central nervous system.  
**Chronic effects** Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
**Signs and symptoms** Irritation of eyes and mucous membranes. Skin irritation.

## 3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
ASPHALT	8052-42-4	60 - 65
Non-hazardous components	CAS #	Percent
WATER	7732-18-5	20 - 40
PROPRIETARY INGREDIENTS	N/A	2 - 4
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 immediately.  
**Skin contact** Wash off with warm water and soap. 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 thoroughly. Do not induce vomiting without advice from poison control center. 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** Do not use forced stream as this could cause fire to spread.

### Extinguishing media

**Suitable extinguishing media** Water. Water fog. 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

**Specific hazards arising from the chemical** Fire may produce irritating, corrosive and/or toxic gases. H2S

**Protective equipment 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. Structural firefighters protective clothing will only provide limited protection.

### Fire fighting

#### equipment/instructions

In case of fire and/or explosion do not breathe fumes. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use of foam or water may cause frothing.

### 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.

## 6. Accidental Release Measures

**Personal precautions** Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up** Dike far ahead of spill for later disposal.

Never return spills in original containers for re-use. Shovel the material into waste container.

## 7. Handling and Storage

### Handling

All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Avoid contact with skin. Do not use in areas without adequate ventilation. This product is a mixture of water and asphalt. Heating to temperatures above 190°F can cause the water portion to boil, causing excessive frothing resulting in hot asphalt overflow. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. 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.

### Storage

Keep away from heat and sources of ignition. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

## 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**

<b>Eye / face protection</b>	Do not get in eyes. Chemical goggles are recommended.
<b>Skin protection</b>	Avoid contact with the skin. Wear appropriate chemical resistant clothing. Chemical resistant gloves.
<b>Respiratory protection</b>	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
<b>General hygiene considerations</b>	When using do not smoke. Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Viscous liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Black.
<b>Odor</b>	Mild Petroleum Odor
<b>Odor threshold</b>	Not available.
<b>pH</b>	2 - 4
<b>Vapor pressure</b>	0.000011 hPa estimated
<b>Vapor density</b>	> 1
<b>Boiling point</b>	212 °F (100 °C)
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	1.01
<b>Relative density</b>	Not available.
<b>Flash point</b>	> 212 °F (> 100 °C) estimated
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	> 700 °F (> 371.1 °C)
<b>Percent volatile</b>	2 %
<b>Other data</b>	
<b>Density</b>	8.42 lb/gal
<b>Flammability class</b>	Flammable IIIB

**10. Chemical Stability & Reactivity Information**

<b>Chemical stability</b>	Stable under normal temperature conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Combustion products may include sulfur oxides and hydrogen sulfide. Upon decomposition, this product emits carbon monoxide, carbon dioxide, and water.
<b>Possibility of hazardous reactions</b>	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 Hours  
Acute Inhalation LC50 Rat: 3124 mg/l 1 Hours  
Acute Oral LD50 Rabbit: 900 mg/kg  
Acute Other LD50 Mouse: 1449 mg/kg

#### Local effects

Components of the product may be absorbed into the body through the skin. Irritating to skin. Contact may irritate or burn eyes.

#### Chronic effects

Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

#### 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

CRS-1H (Mixture)

#### Test Results

LC50 Fish: 56400 mg/l 96 hours estimated

#### Components

HYDROCHLORIC ACID (7647-01-0)

#### Test Results

LC50 Western mosquitofish (*Gambusia affinis*): 282 mg/l 96 hours

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

#### Ecotoxicity

Contains a substance which causes risk of hazardous effects to the environment

#### Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

#### Persistence and degradability

Not available.

## 13. Disposal Considerations

#### Disposal instructions

Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

## 14. Transport Information

#### DOT

Not regulated as dangerous goods.

## 15. Regulatory Information

### US federal regulations

#### 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

#### DEA Essential Chemical Code Number

HYDROCHLORIC ACID (CAS 7647-01-0)

6545

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

HYDROCHLORIC ACID (CAS 7647-01-0)

20 %WV

#### DEA Exempt Chemical Mixtures Code Number

HYDROCHLORIC ACID (CAS 7647-01-0)

6545

**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**

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** 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
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)

**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**

**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**

08-31-2011

**This data sheet contains changes from the previous version in section(s):**

Handling and Storage: Handling  
Handling and Storage: Storage  
Physical & Chemical Properties: Multiple Properties  
Chemical Stability & Reactivity Information: Hazardous decomposition products  
Disposal Considerations: Disposal instructions  
Regulatory Information: United States