

## 1. Product and Company Identification

**Material name** CQS-1F 60/40 DIL  
**Version #** 01  
**Revision date** 09-16-2011  
**CAS #** Mixture  
**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

**Potential health effects**  
**Routes of exposure** Inhalation.  
**Eyes** Contact with eyes may cause irritation.  
**Skin** Health injuries are not known or expected under normal use.  
**Inhalation** May be irritating. Prolonged inhalation may be harmful.  
**Ingestion** Health injuries are not known or expected under normal use.  
**Signs and symptoms** Irritation of nose and throat. Irritation of eyes and mucous membranes.  
**Potential environmental effects** May cause long-term adverse effects in the environment.

## 3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
HYDROCHLORIC ACID	7647-01-0	0 - 1
ASPHALT	8052-42-4	20 - 60
Non-hazardous components	CAS #	Percent
PROPRIETARY INGREDIENTS	N/A	0 - 10
WATER	7732-18-5	50 - 100

## 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** Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**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

**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.

**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** Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Keep people away from and upwind of spill/leak. 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** Should not be released into the environment. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

Never return spills in original containers for re-use.

## 7. Handling and Storage

**Handling** Use only in area provided with appropriate exhaust ventilation. Avoid prolonged exposure. 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, sparks and open flame. Keep away from heat and sources of ignition. Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Components	Type	Value	Form
ASPHALT (8052-42-4)	TWA	0.5000 mg/m <sup>3</sup>	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 <sup>3</sup>

**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** Wear goggles/face shield.

**Skin protection** Wear appropriate clothing to prevent any possibility of skin contact.

**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** Brown

**Odor** Tar-like

**Odor threshold** Not available.

**Physical state** Liquid.

**Form** Liquid.

**pH** 2 - 4 .

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

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon Dioxide. Carbon monoxide. Water. Combustion products may include sulfur oxides and hydrogen sulfide.
<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 1.00 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

#### Components

#### Test Results

HYDROCHLORIC ACID (7647-01-0)

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

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### 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

Korea

Existing Chemicals List (ECL)

Yes

Country(s) or region	Inventory name	On inventory (yes/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.

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**

09-16-2011