

Safety Data Sheet  
CRS-1h Asphalt Emulsion  
03/06/15



Section 1 - Product and Company Identification

<b>Material Name</b>	- <b>CRS-1h</b>
<b>Chemical Category</b>	- Mixture
<b>Product Code</b>	- GAS-CRS1h
<b>Product Description</b>	- Cationic Rapid Set Asphalt Emulsion
<b>Product Use</b>	- Road paving emulsion
<b>Synonyms</b>	- Asphalt Emulsion
<b>Manufacturer</b>	- Gardner Asphalt Supply, LLC 25938 Nanticoke St. Seaford, DE 19973 United States
<b>Telephone</b>	
<b>Technical</b>	- 813-248-2101
<b><u>Emergency</u></b>	- 800-424-9300
<b>Last Revision Date</b>	- 03/06/2015

Section 2 - Hazards Identification


**Signal Word: WARNING**

May be harmful if swallowed. May cause respiratory irritation. Causes eye irritation. Causes mild skin irritation.  
Vapors may cause headache, nausea, and respiratory tract irritation.

**Prevention** Do not breathe dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety precautions have been read and understood.

**Response** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.



<b>Physical Form</b>	- Liquid
<b>Color</b>	- Black
<b>Odor</b>	- Mild Hydrocarbon.
<b>Flash Point</b>	- 460°F(238°C)
<b>OSHA HSC2012</b>	- Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A (Potential Asphalt Fumes)
<b>WHMIS</b>	- Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A - 
<b>GHS</b>	- Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
<b>Route Of Entry</b>	- Inhalation, Skin, Eye

**Potential Health Effects****Inhalation**

- Acute (Immediate)** - May cause irritation.
- Chronic (Delayed)** - No data available

**Skin**

- Acute (Immediate)** - May cause skin [irritation](#)
- Chronic (Delayed)** - Repeated and prolonged exposure may cause dermatitis.

**Eye**

- Acute (Immediate)** - May cause burning and redness or swelling of the eyes. May cause irritation.
- Chronic (Delayed)** - Repeated and prolonged exposure may cause irritation.

**Ingestion**

- Acute (Immediate)** - May be toxic if swallowed
- Chronic (Delayed)** - No data available

**Carcinogenic Effects**

- See Section 11 - Toxicological Information.

Carcinogenic Effects			
	CAS	IARC	NTP
Asphalt	8052-42-4	Group 2B-Possible Carcinogen	Under Consideration

**Section 3 - Composition/Information on Ingredients**

Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Asphalt	8052-42-4	40% TO 60%	NA1999, 232-490-9	Ingestion/Oral-Rat LD50 · >5000 mg/kg Inhalation-Rat LC50 · >94.4 mg/m <sup>3</sup>	NDA	NDA
Non-Hazardous Components						
Chemical Name	CAS	%(wt)	UN;EINECS	LD50/LC50	EU R & S Phrases	Other
Water	7732-18-5	20% TO 40%	231-791-2	Ingestion/Oral-Rat LD50 · >90 mL/kg	NDA	NDA

See Section 11 for Toxicological Information.

**Section 4 - First Aid Measures**

- Inhalation** - Remove to fresh air. Call a physician or poison control center if you feel unwell. If not breathing, give artificial respiration.
- Skin** - Wash the contaminated area of body with soap and fresh water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Eye** - Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present and after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.
- Ingestion** - Call a physician or poison control center immediately. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting.

See Section 2 for Potential Health Effects.

**Section 5 - Fire Fighting Measures**

<b>Extinguishing Media</b>	- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable Extinguishing Media</b>	- No data available
<b>Firefighting Procedures</b>	- Keep unauthorized personnel away. Stay upwind. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
<b>Unusual Fire and Explosion Hazards</b>	- Some of these materials may burn, but do not readily ignite.
<b>Hazardous Combustion Products</b>	- May release irritating or toxic gases, fumes, or vapors when burning.
<b>Protection of Firefighters</b>	- Carbon monoxide, carbon dioxide, hydrocarbons.
<b>Flash Point</b>	- Wear positive pressure self-contained breathing apparatus (SCBA).
	- N/A

## Section 6 - Accidental Release Measures

<b>Personal Precautions</b>	- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing to prevent exposure. Ventilate enclosed areas during cleanup.
<b>Emergency Procedures</b>	- Stop leak if you can do so without risk. Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up.
<b>Environmental Precautions</b>	- Avoid run off to waterways and sewers. Do NOT wash away into sewer
<b>Containment/Clean-up Measures</b>	- Use appropriate Personal Protective Equipment (PPE). Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.
<b>Prohibited Materials</b>	- Avoid contact with strong oxidizing agents and acids.

## Section 7 - Handling and Storage

<b>Handling</b>	- Keep containers tightly closed when not in use. Use only with adequate ventilation.
<b>Storage</b>	- Keep only in the original container/package in a cool well-ventilated place. Keep away from fire. Keep container closed when not in use.
<b>Special Packaging Materials</b>	- No data available
<b>Incompatible Materials or Ignition Sources</b>	- Avoid contact with strong oxidizing agents and acids.

## Section 8 - Exposure Controls/Personal Protection

### Personal Protective Equipment

#### Pictograms



#### Respiratory

- When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator. This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

#### Eye/Face

- Wear ANSI approved safety glasses with side shields or safety goggles.

#### Hands

- Wear chemical protective gloves made of Nitrile or Neoprene.

#### Skin/Body

- Wear clothing that covers the skin to prevent skin exposure.

#### General Industrial Hygiene Considerations

- Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke during work. Wash hands before eating.

**Engineering Measures/Controls**

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Exposure Limits/Guidelines					
	Result	ACGIH	NIOSH	OSHA	United States - California
Asphalt (8052-42-4)	TWAs	0.5 mg/m <sup>3</sup> TWA (as benzene soluble aerosol, fume, inhalable fraction)	Not established	Not established	5 mg/m <sup>3</sup> PEL (fume)

**Exposure Control Notations**

**ACGIH**

- Asphalt (8052-42-4):Carcinogens:A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)

**Key to abbreviations**

- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**Section 9 - Physical and Chemical Properties**

- Physical Form** - Liquid
- Appearance/Description** - Thick black semi-liquid.

<b>Color:</b> Black		<b>Odor:</b> Mild Hydrocarbon.	
<b>Boiling Point:</b>	212° F(100° C)	<b>Vapor Pressure:</b>	= 17 @ 77 F(25 C)
<b>Specific Gravity/Relative Density:</b>	= 1.020 Water=1	<b>Evaporation Rate:</b>	= 1 Water = 1
<b>Density:</b>	= 8.51 lbs/gal	<b>VOC (Wt.):</b>	NDA
<b>Bulk Density:</b>	NDA	<b>VOC (Vol.):</b>	<10 g/L
<b>Solvent Solubility:</b>	NDA	<b>Flash Point:</b>	460 F(237.7778 C)

**Section 10 - Stability and Reactivity**

- Stability** - Stable under normal temperatures and pressures.
- Hazardous Polymerization** - Hazardous polymerization not indicated.
- Conditions to Avoid** - Avoid contact with strong oxidizing agents and acids.
- Incompatible Materials** - Strong oxidizers and acids.
- Hazardous Decomposition Products** - Carbon monoxide, carbon dioxide and hydrocarbons.

**Section 11 - Toxicological Information**

Component Name	Concentration	CAS	Data
Asphalt	40% TO 60%	8052-42-4	Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m <sup>3</sup> ; ihl-hmn TDLo:10 mg/m <sup>3</sup> /5.5Y-I Tumorigen/Carcinogen: ; skn-mus TDLo:905 gm/kg/2Y-I

**Other Information**

- This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation in recent studies. Inhalation studies of high

airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.

## Section 12 - Ecological Information

<b>Ecological Fate</b>	- No data available.
<b>Persistence/Degradability</b>	- No data available.
<b>Bioaccumulation Potential</b>	- No data available.
<b>Mobility in Soil</b>	- No data available.

## Section 13 - Disposal Considerations

<b>Product</b>	- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
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## Section 14 - Transportation Information

**DOT - United States - Department of Transportation**  
Shipping Name: Not Restricted

**TDG - Canada - Transport of Dangerous Goods**  
Shipping Name: Not Restricted

**IMO/IMDG -International Maritime Transport**  
Shipping Name: Not Restricted

## Section 15 - Regulatory Information

<b>SARA Hazard Classifications</b>	- Acute, Chronic
<b>Risk &amp; Safety Phrases</b>	- California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm. .

State Right To Know				
Component	CAS	MA	MN	NJ
Water	7732-18-5	No	No	No
Asphalt	8052-42-4	Yes	Yes	Yes

Inventory			
Component	CAS	EU EINECS	TSCA
Asphalt	8052-42-4	Yes	Yes

### Canada - WHMIS - Classifications of Substances

▪ Asphalt	8052-42-4	40% TO 60%	Not Listed
▪ Water	7732-18-5	20% TO 40%	Uncontrolled product according to WHMIS classification criteria

**U.S. - California - Proposition 65 - Carcinogens List**

• Asphalt	8052-42-4	40% TO 60%	Not Listed
• Water	7732-18-5	20% TO 40%	Not Listed

**Section 16 - Other Information**

**Last Revision Date**

- 03/06/2015

**Prepared By**

- Gardner Asphalt Supply, LLC.

**Disclaimer/Statement of Liability**

- This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to verify the suitability and completeness of such information for particular use. Gardner-Gibson does not accept liability for any loss or damage that may occur from the use of this information.

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