



Section 1 - Product and Company Identification

Material Name	- CRS-2
Chemical Category	- Mixture
Product Code	- GAS-CRS2
Product Description	- Cationic Rapid Set Asphalt Emulsion
Product Use	- Road paving emulsion
Synonyms	- Asphalt Emulsion
Manufacturer	- Gardner Asphalt Supply, LLC 25938 Nanticoke St. Seaford, DE 19973 United States
Telephone	
Technical	- 813-248-2101
<u>Emergency</u>	- 800-424-9300
Last Revision Date	- 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.



Physical Form	- Liquid
Color	- Black
Odor	- Mild Hydrocarbon.
Flash Point	- 460°F(238°C)
OSHA HSC2012	- 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)
WHMIS	- Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A - 
GHS	- Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
Route Of Entry	- 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 ³	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

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

Section 6 - Accidental Release Measures

Personal Precautions	- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing to prevent exposure. Ventilate enclosed areas during cleanup.
Emergency Procedures	- 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.
Environmental Precautions	- Avoid run off to waterways and sewers. Do NOT wash away into sewer
Containment/Clean-up Measures	- Use appropriate Personal Protective Equipment (PPE). Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.
Prohibited Materials	- Avoid contact with strong oxidizing agents and acids.

Section 7 - Handling and Storage

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

- Adequate ventilation systems as needed to control concentrations of airborne

Measures/Controls

contaminants below applicable threshold limit values.

Exposure Limits/Guidelines					
	Result	ACGIH	NIOSH	OSHA	United States - California
Asphalt (8052-42-4)	TWAs	0.5 mg/m3 TWA (as benzene soluble aerosol, fume, inhalable fraction)	Not established	Not established	5 mg/m3 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.

Color: Black		Odor: Mild Hydrocarbon.	
Boiling Point:	212° F(100° C)	Vapor Pressure:	= 17 @ 77 F(25 C)
Specific Gravity/Relative Density:	= 1.020 Water=1	Evaporation Rate:	= 1 Water = 1
Density:	= 8.51 lbs/gal	VOC (Wt.):	NDA
Bulk Density:	NDA	VOC (Vol.):	<10 g/L
Solvent Solubility:	NDA	Flash Point:	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/m3; ihl-hmn TDLo:10 mg/m3/5.5Y-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

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

Section 13 - Disposal Considerations

Product	- 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

SARA Hazard Classifications	- Acute, Chronic
Risk & Safety Phrases	- 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.
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