

SECTION 1: IDENTIFICATION**Product Identifier**

Product Form: Mixture
Product Name: Cationic Emulsion
Synonyms: CRS-1, CRS-1h, CRS-1P, CRS-2, CRS-2L, CRS-2P, CMS-2, CSS-1, CSS-1h

Intended Use of the Product

Use of the substance/mixture: Tack Coat, Fog Seal, Pavement Maintenance Treatments

Name, Address, and Telephone of the Responsible Party

Company: All States Construction, Inc. & Subsidiaries
325 Amherst Road
Sunderland, MA 01375
413-665-7021
www.asmg.com

Manufacturer: All States Asphalt, LLC.
201 Lowland ST.
Holliston, MA 01746
508-429-5550

Emergency Telephone Number

Emergency Number: 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Physical Hazards: Not classified.
Health Hazards: Not classified.
Environmental Hazards: Not classified.
OSHA Defined Hazards: Not classified.

Label Elements

<i>Hazard Pictograms (GHS-US)</i>	None
<i>Signal Word (GHS-US)</i>	None
<i>Hazard Statements (GHS-US)</i>	This mixture does not meet the criteria for classification.
<i>Prevention</i>	Observe good industrial hygiene practices.
<i>Storage</i>	Store away from incompatible materials.
<i>Disposal</i>	Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Vapors containing hydrogen sulfide may accumulate during storage or transport. HYDROGEN SULFIDE (H₂S) can be harmful or fatal if inhaled.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable

Mixture

Name	Product Identifier	%
Asphalt	(CAS No) 8052-42-4	55 – 70
Water	(CAS No) 7732-18-5	30 – 45
Fuel oil No. 2	(CAS No) 68476-30-2	0 – 3
Hydrogen chloride	(CAS No) 7647-01-0	< 0.5

* Components not listed are either non-hazardous or below the required disclosure threshold

SECTION 4: FIRST AID MEASURES**Description of First Aid Measures**

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Consult a physician if you feel unwell.

Skin Contact: Rinse immediately with plenty of water. Remove contaminated clothing. Consult a physician if you feel unwell. Do not attempt to forcibly remove material from skin after cooling. DO NOT use solvents or thinners.

Eye Contact: Rinse cautiously with 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.

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.

Most Important Symptoms and Effects, Both Acute and Delayed

Direct contact with eyes may cause temporary irritation

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned get medical advice and attention.

General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE-FIGHTING MEASURES**Extinguishing Media**

Suitable Extinguishing Media: Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Water. Do not use water jet as an extinguisher, as this will spread the fire.

Special Hazards Arising From the Substance or Mixture

During fire, gases hazardous to health may be formed.

Advice for Firefighters

Special 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.

Firefighting Equipment/Instructions: ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray.

Specific Methods: In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

General Fire Hazards: No unusual fire or explosion hazards noted.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Methods and Material for Containment and Cleaning Up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Ventilate area and avoid breathing vapors or mist. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Avoid prolonged exposure. Use only in well-ventilated areas. Hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

Conditions for Safe Storage, Including Any Incompatibilities

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials. Do not allow material to freeze.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Occupational exposure limits

<i>Asphalt (8052-42-4)</i>		
USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ (fume, inhalable fraction)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen fume, coal tar-free
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	5 mg/m ³ (fume)
<i>Fuel oil No. 2 (68476-30-2)</i>		
USA ACGIH	USA ACGIH	100 mg/m ³ (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans
<i>Hydrogen chloride (7647-01-0)</i>		
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	7 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	50 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	7 mg/m ³
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

Exposure Controls
Appropriate Engineering Controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Protective clothing. Gloves. Safety glasses.


Hand Protection

Chemical resistant gloves are recommended.

Skin and Body Protection

Wear suitable protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Consumer Exposure Controls

Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
Information on Basic Physical and Chemical Properties

<i>Physical State</i>	Liquid
<i>Appearance</i>	Brown
<i>Odor</i>	Mild Petroleum
<i>Odor Threshold</i>	No data available
<i>pH</i>	2.0 – 6.0
<i>Evaporation Rate</i>	No data available
<i>Melting Point</i>	No data available
<i>Freezing Point</i>	32°F (0°C)
<i>Boiling Point</i>	212°F (100°C)
<i>Flash Point</i>	>350°F (>177 °C)
<i>Auto-ignition Temperature</i>	No data available
<i>Decomposition Temperature</i>	No data available
<i>Flammability (solid, gas)</i>	No data available
<i>Vapor Pressure</i>	24 mm Hg @ 77°F
<i>Relative Vapor Density at 20 °C</i>	No data available
<i>Relative Density</i>	No data available
<i>Specific Gravity</i>	1.00 – 1.02 @ 60°F
<i>Solubility</i>	Water: Partially miscible
<i>Partition Coefficient: N-Octanol/Water</i>	No data available
<i>Viscosity</i>	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: Stable under normal temperature conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials. 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.

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects

Acute Toxicity: Not classified

Asphalt (8052-42-4)

LD50 Oral Rat	> 5000 mg/kg
---------------	--------------

LD50 Dermal Rabbit	> 2000 mg/kg
<i>Fuel oil No. 2 (68476-30-2)</i>	
LD50 Dermal Rabbit	4720 µl/kg
LC50 Inhalation Rat	4.6 mg/l/4h

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Risk of cancer cannot be excluded with prolonged exposure.

Reproductive Toxicity: Not Classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of fumes or vapors may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation. Prolonged or repeated contact with the skin may cause dermatitis.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause nausea, vomiting, and diarrhea.

Chronic Symptoms: Repeated or prolonged skin contact may cause dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology – General: Not expected to be harmful to aquatic organisms.

<i>Fuel oil No. 2 (68476-30-2)</i>	
LC50 Fish 1	35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<i>Hydrogen chloride (7647-01-0)</i>	
LC50 Fish 1	3.25 - 3.5 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
EC50 Daphnia 1	4.92 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability

No additional information available

Bioaccumulative Potential

<i>Asphalt (8052-42-4)</i>	
BCF fish 1	(no bioaccumulation expected)
Log Pow	> 6

Mobility in Soil

No additional information available

Other Adverse Effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS
Waste treatment methods

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. No components are identified as hazardous wastes. Disposal recommendations are based on uncontaminated material.

Local Disposal Regulations: Dispose in accordance with all applicable regulations.

Hazardous Waste Code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Not applicable.

Waste From Residues / Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION
DOT

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not available.

SECTION 15: REGULATORY INFORMATION
US Federal Regulations

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ASPHALT (CAS 8052-42-4)

Listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

SARA 302 Extremely hazardous substance

Not listed

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 12/14/2020

Date of Issue: 12/14/2020

Version: 1.2

SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting)	Not regulated
<i>Other federal regulations</i>	
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not Regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not Regulated
Safe Drinking Water Act (SDWA)	Not Regulated

US State Regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

<i>US. Massachusetts RTK - Substance List</i>	
Asphalt (CAS 8052-42-4)	
<i>US. New Jersey Worker and Community Right-to-Know Act</i>	
Asphalt (CAS 8052-42-4)	
<i>US. Pennsylvania RTK - Hazardous Substances</i>	
Asphalt (CAS 8052-42-4)	
<i>US. California Proposition 65</i>	
WARNING: This product contains a chemical known to the State of California to cause cancer.	
<i>US - California Proposition 65 - CRT: Listed date/Carcinogenic substance</i>	
ASPHALT (CAS 8052-42-4)	Listed: January 1, 1990

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date 12/14/2020

Other Information This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.