



MATERIAL SAFETY DATA SHEET

Idaho Asphalt Supply, Inc.

MSDS #: 400

DATE REVISED: 09/12/12
SUPERSEDES ANY PREVIOUS

Section 1 Product Identification/Contact Information

Product Identity:

Generic Category: Cationic Emulsified Asphalt
Product Name(s): CSS-1, CSS-1DIL, CSS-1H, CSS-1H DIL, CSS-1HC, STE-1, CHR-3H, CQS-1H, CQS-1H DIL, CQS-1NV, SC-H50, CRS-1, CRS-1H, CRS-1H DIL, CRS-2, CRS-2A, CRS-2F, CRS-2H, CRS-2NV, Quickseal, SC-H118
Formula: Trade Secret

Company Address: Idaho Asphalt Supply, Inc.,
P.O. Box 50538
Idaho Falls, ID 83405
PHONE: (208)524-5871

TRANSPORTATION EMERGENCY PHONE: Chemtrec (800)424-9300

Product Use: Road Paving and Resurfacing

Section 2 Composition

<u>Ingredients</u>	<u>CAS #</u>	<u>Concentration</u>
Asphalt Cement	8052-42-4	< 80%
Naptha	8030-30-6	0-12%
No. 1 Fuel (Kerosene)	8008-20-6	0-5%
Cationic Emulsifier	Trade Secret	< 5%
Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	0-2%
Water	7732-18-5	Balance

Section 3 Physical & Chemical Properties

Boiling Point: > 100°C (212°F)
Specific Gravity @ 60°F: 0.95 to 1.03
pH: 1-5
Vapor Pressure (mm Hg): <1
Melting Point: Not Established

Vapor Density (Air= 1): >1
Evaporation Rate (nBuAc = 1): <1
Solubility in Water: Up to 100%
Appearance and Odor: Viscous brown to black liquid; odor of amines and hydrocarbons

Section 4 Fire Fighting Measures

Flash Point: Not Available
Autoignition Temperature NFPA: Not Available
Extinguishing Media: Dry Chemical, CO₂, Foam, Class "B" extinguisher.
Special Fire Fighting Procedures: Avoid breathing vapors, wear self-contained breathing apparatus. Use of foam or water may cause frothing. Avoid using straight water streams.
Unusual Fire Explosion Hazards: Do not heat material above 212 °F to avoid generating excessive steam pressure.
Fire & Explosion Hazards: This product is not defined as flammable or combustible.

Hazard Rating:	HMIS	NFPA	Hazard Rating Scale	
Health:	2	2	0 - Minimal	3 - Serious
Fire:	1	1	1 - Slight	4 - Severe
Reactivity:	0	0	2 - Moderate	
Special:	0	0		

Section 5	Reactivity
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Stable: YES

Conditions to Avoid: Open flame, sparks and extreme heat. Do not heat above 200 °F (93.3°C). Avoid freezing.

Incompatible Materials: Avoid strong oxidizing agents.

Hazardous Decomposition Products: Combustion may form CO₂, CO and sulfur dioxide.

Hazardous Polymerization: Will not occur.

Section 6	Health Hazard Data
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Hazards: May cause irritation and burns to skin and eyes when brought in contact.

Inhalation: This product is not likely to present an inhalation hazard during normal use. At elevated temperatures and in confined spaces, vapors may cause irritation of the respiratory tract.

Skin Absorption: No significant symptoms indicative of skin absorption expected.

Skin Irritation: Will cause burns when product is hot. May cause dermatitis and acne like lesion with prolonged exposure.

Ingestion: Ingestion of this material can cause severe irritation or burns of the mouth, throat, esophagus, and stomach. May cause nausea and vomiting.

Eye Contact: Will burn and irritate.

Primary Route of Exposure: Skin and eye contact are the primary routes of exposure to this product.

Carcinogen: The International Agency for Research on Cancer (IARC) concluded that occupational exposures to asphalt fume during paving operations are "possibly carcinogenic to humans" (Group 2B).

Section 7	Emergency First Aid Measures
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Inhalation: Remove to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.

Eye Contact: Flush eyes with low pressure water for at least 15 minutes and obtain medical attention immediately.

Skin Contact: If hot product should contact skin, thermal burns will result. Immediately cool the affected area with cold water. It is not advisable to immediately remove product. Natural separation will occur in 48 -78 hours. Removal should be attempted only under the direction of a physician.

Ingestion: If ingested, do not induce vomiting, call a physician immediately.

Section 8	Exposure Limits/Exposure Controls
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Chemical Name	PEL (OSHA)	STEL (OSHA)	STEL (NIOSH)	TWA (ACGIH)
Asphalt Cement Fumes				0.5 mg/m ³
Naptha	100 ppm		100 ppm	
No. 1 Fuel (Kerosene)			100 mg/m ³	
Hydrochloric Acid		5 ppm		
Hydrogen Sulfide		20 ppm	5 ppm	1 ppm

Respiratory Protection: Avoid breathing vapors in confined spaces. NOISH approved respirators may be required if TLV's are exceeded.

Eye Protection: Use safety glasses, goggles or face shields.

Skin Protection: PPE selection based on the specific use conditions. When handling product at elevated temperatures, use long-cuffed heat resistant gloves. When product is at ambient temperatures, use gloves constructed of chemical resistant materials such as heavy nitrile rubber. Use coveralls, impervious apron and long sleeved shirts and wear impervious footwear.

Engineering Controls: Local exhaust ventilation may be required to meet exposure standards in confined areas.

Handling Precautions: Storage tanks and trucks must be emptied, cooled, ventilated, and tested for absence of vapors before allowing personnel entry.

Section 9 Accidental Release Measures

Notification and Personal Precautions: In the event of a spill or accidental release, immediately contact emergency personnel and notify relevant authorities in accordance with all applicable regulations. If the release of this material to the environment could reach any waterway including intermittent dry creeks, contact the National Response Center at (800)424-8802.

Land Spill: Stop release by making earthen dike, prevent flow from entering sewers and water ways. Allow to cool. Remove large spill. Soak up product with sand.

Waste Disposal: Handle in accordance with federal, state and local regulations.

Section 10 Transportation Information

Shipping Information: Not Regulated
Placard: None
Labels: None
Empty: Not Regulated

Section 11 Special Precautions

- During storage or transport of hot product, hydrogen sulfide (H₂S) may accumulate in the head space of storage or transportation vessels. Open hatches with caution. Avoid breathing vapors. Vapors may be flammable and may cause nausea and dizziness when inhaled.

Section 12 Miscellaneous

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for these products. If the product is used as a component in another product, this MSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Hazardous Communication Standard (29 CFR 1200)