



LAKE ASPHALT
OF TRINIDAD AND TOBAGO (1978) LIMITED

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MATERIAL SAFETY DATA SHEET
(M S D S)

1. Product Identification

Product Name: CATIONIC EMULISON CSS-1

Origin: Manufactured by dispensing refinery bitumen in water

Other Names: Cationic Emulsion Asphalt, Cationic Asphalt Emulsion

Composition: A suspension of 60-65% refinery bitumen in 35-40% water aided by < 2.00% organic emulsifiers and inorganic stabilizers.

2. Physical and Chemical Properties

Appearance: Thick dark brown liquid

Properties: Viscosity (SF_s) @ 25° C : 20 – 100
 pH Value : 1.70

Stability: Product is unstable when subjected to intense agitation Bitumen may settle on prolonged storage. Do not agitate rapidly nor use forced air. Roll gently before use to homogenize material.

3. Fire Protection

Flash Point: Greater than 200° C

Fire Safety: Material is not flammable but would support combustion. If container is afire, remove from area and properly soak with water, even after fire is out. Wear protective clothing and utilize self-contained breathing apparatus.

Collect and dispose of any contaminated water.

Extinguishing Media: Dry chemical, carbon dioxide, halon or water extinguishers may be used.

4. Potential Hazards and First Aid

Cationic emulsion may cause irritation if it comes into contact with eyes and skin. Emulsifier component (minimal) is corrosive. Ingestion should be avoided.

Suitable protective clothing should be worn when handling emulsions.

First Aid: **Eyes** - Flush with running water for at least 15 minutes. Seek medical attention.

Skin - Pat dry and wash area with soap and water. Remaining bitumen may be removed with medically approved solvent.

Ingestion - Drink lots of water and seek medical attention.

Inhalation - Not a likely hazard, but remove person to fresh air and seek medical attention.

5. Physiological Data

The components of the cationic emulsion are not listed as carcinogens. There is little evidence of any serious hazard to health due to limited or prolonged exposure to cationic emulsions.

6. Handling and Transporting

Improper handling may cause the emulsion to break prematurely, rendering it useless. Do not heat above 85° C since water will evaporate at 100° C. Do not freeze or use forced air.

The recommended storage temperature for Cationic Emulsion CSS-1 is 10-60° C .