



**LAKE ASPHALT**  
OF TRINIDAD AND TOBAGO (1978) LIMITED

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Date: January 2013

**MATERIAL SAFETY DATA SHEET**  
(M S D S)

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**1. Product Identification**

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Product Name: **CATIONIC EMULISON CRS-2**

Origin: Manufactured by dispensing refinery bitumen in water

Other Names: Cationic Emulsion Asphalt, Cationic Asphalt Emulsion

UN# : 1999 CLASS 3

Composition: A suspension of 65-70% refinery bitumen in 30-35% water aided by < 0.50% organic emulsifiers and inorganic stabilizers.

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*Information presented has been compiled from tests conducted and documented sources that are considered accurate, reliable and honest to the best of our knowledge. This, is not intended to be given as a guarantee as the product use is beyond the control of the producer.*

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## **2. Physical and Chemical Properties**

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Appearance: Thick dark brown liquid

Properties: Viscosity (SFs) @ 50° C : 100 – 400  
pH Value : 2.50

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.

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### **3. Fire Protection**

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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.

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## **4. Potential Hazards and First Aid**

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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.

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## **5. Physiological Data**

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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.

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## **6. Handling and Transporting**

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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 CRS-2 is 50-85° C .