



# CRIOUS CORP

**Manufacturer:** Crius Corp  
 Minnetonka, MN 55305  
 Emergency Phone: (877) 251-8295  
 Information Phone: (877) 251-8295  
 Effective Date: 2/5/2010

## Section 1 - Identification

**Product Name:** MACMAT-AR **H.M.I.S**  
**Chemical Family** Asphalt Emulsion  
 Health= 0  
 Fire= 0  
 Reactivity= 0

## Section 2 - Ingredients

Ingredients	CAS NO.	WGT%	Exposure Limits	
			OSHA PEL	A CGIH TLV
<b>Hazardous Ingredients</b>				
Asphalt Cement	8052-42-4	28-30	N/A	5.0 mg/m <sup>3</sup>

Listed in SARA Title III, Section 313-No.  
 LC 50 -N/A  
 LD 50 -N/A  
 STEL -N/A

Ball Clay*	1332-58-7	16-19	N/A	5.0 mg/m <sup>3</sup>
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\* Ball clays contain silica as quartz (CAS No. 14808-60-7) between 205-30% by dry weight depending upon the manufacture. OSHA PEL for Quartz is 0.1 mg/m<sup>3</sup>.

LC 50 -N/A  
 LD 50 -N/A  
 STEL -5.0 mg/m<sup>3</sup>

Water	7732-18-5	48-50	N/A	N/A
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Listed in SARA Title III, Section 313 - No.  
 LC 50 -N/A  
 LD -N/A  
 STEL -N/A

## Section 3 - Physical/Chemical Characteristics

Boiling Point	Vapor Pressure	Vapor Density	Appearance & Odor
Greater than 212 deg F	Nearly Equal to Water (mm Hg)	>1.0 Air = 1.0)	Black liquid, Asphaltic smell

Specific Gravity (h <sub>2</sub> o=1)	Melting Point	Evaporation Rate (Butyl Acetate=1)	pH
1.1 - 1.2	N/A	approx 1.8	6.9 - 8.0

## **Section 4 – Fire and Explosion Hazard Data**

<b>Flash Point (Method used)</b>	<b>Flammable Limits</b>	<b>LEL</b>	<b>UEL</b>
N/A	N/A	N/A	N/A

<b>Combustion Products</b>	<b>Extinguishing Media</b>
CO, CO <sub>2</sub> , Hydrocarbons others	Foam, dry chemicals, water fog, CO <sub>2</sub> ,

### **Unusual Fire and Explosion Hazards**

N/A

### **Special Fire Fighting Procedures**

Full protective equipment, self-contained breathing apparatus. Sealed containers should be cooled to prevent steam from rupturing the container.

## **Section 5- Reactivity Data**

<b>Stability</b>	<b>Conditions to Avoid</b>	<b>Incompatibility</b>
Stable	Extreme heat; do not let freeze	Strong oxidizers

**Hazardous Decomposition Products:** N/A

**Conditions to Avoid:** Extreme heat and freezing temperatures

## **Section 6 – Health Hazard Data**

### **Primary Entry Routes**

Inhalation and absorption

### **Target Organs**

Mucous membranes, skin, and digestive tract.

### **Acute Effects**

**Inhalation:** Irritation of mucous membranes and respiratory tract. May cause headache, nausea, vomiting, dizziness and loss of coordination

**Eye:** Highly irritating

**Skin:** Moderately irritating. May cause drying of skin.

**Ingestion:** Irritating to mucous membranes and digestive tract. May cause nausea, vomiting or diarrhea.

**Chronic Effect:** Prolonged exposure to skin may cause dermatitis. Evidence from animal studies suggest that asphalt left on the skin for long periods of time may cause local carcinomas, but there have not been any reports of this effect on human skin that can be attributed to asphalt alone.

## **Section 7 – First Aid Measures**

**Inhalation:** Remove to Fresh air. Apply artificial respiration if necessary. Seek medical attention if needed.

**Eye Contact:** Flush eyes thoroughly for at least 15 minutes. If irritation continues, seek medical attention.

**Skin Contact:** Wash area thoroughly with soap and water.

**Ingestion:** Seek medical help immediately and follow instructions.

## **Section 8- Accidental Release Measures**

**Spill/Leak Procedures:** Stop spill/leak at source. Confine spill with diking or other measures. Clean spill but do not allow material into sewer or water ways. Ventilate area to reduce the possibility of breathing vapor.

**Cleanup:** Mix material with sand or other stable inert materials. Dispose of material properly- follow all local and federal laws.

**Regulatory Requirements:** Notify local Officials if necessary. Follow all local or federal laws regarding disposal of solid waste.

## **Section 9-Safe Handling**

**Ventilation:** Mechanical- Recommended  
Special- N/A  
Other- N/A

**Respiratory Protection (Special type):** Use only with adequate ventilation. If adequate ventilation is not possible, wear appropriate respiratory equipment.

**Protective Glove:** Chemically resistant rubber gloves are recommended.

**Eye Protection:** Wear eye protection at all times.

**Other Protective Equipment:** Wear protective clothing that is suitable to the process. Wash any contaminated clothing before re-use. A clean water source should be available for washing eyes and skin.

## **Section 10- Ecological Information**

**Ecotoxicity:** No data

**Environmental Fate**

**Environmental Transport:** No data

**Soil Absorption/Mobility:** No data

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