## METHYLCYCLOPENTADIENE DIMER

### 1. CORRECTIVE RESPONSE ACTIONS
**Stop discharge**

### 2. CHEMICAL DESIGNATIONS
- **2.1** CG Compatibility Group: 30; Olefins
- **2.2** Formula: C11H14
- **2.3** IMO/UN Designation: Currently not available
- **2.4** DOT ID No.: Not listed
- **2.5** CAS Registry No.: 52647-00-4
- **2.6** NAERG Guide No.: Not listed
- **2.7** Standard Industrial Trade Classification: 51129

### 3. HEALTH HAZARDS
- **3.1** Personal Protective Equipment: Self-contained breathing apparatus, protective clothing, rubber boots and heavy rubber gloves.
- **3.2** Symptoms Following Exposure: Harmful. If swallowed, inhaled or absorbed through skin. Vapor or mist is irritating to the eyes, mucous membrane, upper respiratory tract. Exposure can cause nausea, headache, and vomiting. May contain 0.5% Benzene, a known carcinogen.
- **3.3** Treatment of Exposure: INHALATION: Call a physician. Remove the victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. EYES OR SKIN: Immediately flush with copious amounts of water for 15 minutes while removing contaminated clothing and shoes. Assure adequate flushing of the eyes by holding eyelids open with fingers.
- **3.4** TLV-TWA: Not listed.
- **3.5** TLV-STEL: Not listed.
- **3.6** TLV-Ceiling: Not listed.
- **3.7** Toxicity by Ingestion: Grade 1; LD50 = 7.7 g/kg (mice)
- **3.8** Toxicity by Inhalation: Currently not available.
- **3.9** Chronic Toxicity: Damage to liver, kidney and lung. Carcinogenic.
- **3.10** Vapor (Gas) Irritant Characteristics: Vapors are moderately irritating such that personnel will not usually tolerate moderate or high concentrations.
- **3.11** Liquid or Solid Characteristics: Causes smarting of skin and first degree burn on short exposure; may cause second degree burn on long exposure.
- **3.12** Odor Threshold: Currently not available.
- **3.13** IDLH Value: Not listed.
- **3.14** OSHA PEL-TWA: Not listed.
- **3.15** OSHA PEL-STEL: Not listed.
- **3.16** OSHA PEL-Ceiling: Not listed.
- **3.17** EPA AEGC: Not listed

### 4. FIRE HAZARDS
- **4.1** Flash Point: 80°F C.C.
- **4.2** Flammable Limits in Air: 1%-10%
- **4.3** Fire Extinguishing Agents: Carbon dioxide, dry chemical, alcohol foam, water sprays.
- **4.4** Fire Extinguishing Agents Not to Be Used: Water may be ineffective.
- **4.5** Special Hazards of Combustion Products: Vapors may travel considerable distances to a source of ignition and flash back. Forms explosive mixtures in air. Container explosion may occur under fire conditions.
- **4.6** Behavior in Fire: Currently not available
- **4.7** Auto Ignition Temperature: Currently not available
- **4.8** Electrical Hazards: Currently not available
- **4.9** Burning Rate: Currently not available
- **4.10** Alkaline Flame Temperature: Currently not available
- **4.11** Stoichiometric Air to Fuel Ratio: 76.2 (cal.)
- **4.12** Flame Temperature: Currently not available
- **4.13** Combustion Molar Ratio (Reactant to Product): 20.0 (cal.)
- **4.14** Minimum Oxygen Concentration for Combustion (MOCO): Not listed

### 5. CHEMICAL REACTIVITY
- **5.1** Reactivity with Water: No reaction.
- **5.2** Reactivity with Common Materials: No reaction.
- **5.3** Stability During Transport: Stable.
- **5.4** Neutralizing Agents for Acids and Corrosives: Not pertinent.
- **5.5** Polymerization: Currently not available
- **5.6** Inhibitor of Polymerization: Currently not available

### 6. WATER POLLUTION
- **6.1** Aquatic Toxicity: Currently not available
- **6.2** Waterfowl Toxicity: Currently not available
- **6.3** Biological Oxygen Demand (BOD): Currently not available
- **6.4** Food Chain Concentration Potential: Currently not available
- **6.5** GESAMP Hazard Profile: Bioaccumulation: 0; Damage to living resources: (3) Human Oral hazard: 1; Human Contact hazard: 1; Reduction of amenities: X

### 7. SHIPPING INFORMATION
- **7.1** Grades of Purity: 99%
- **7.2** Storage Temperature: Ambient.
- **7.3** Inert Atmosphere: Currently not available
- **7.4** Venting: Currently not available
- **7.5** IMO Pollution Category: (B)
- **7.6** Ship Type: 3
- **7.7** Barge Hull Type: 3

### 8. HAZARD CLASSIFICATIONS
- **8.1** 49 CFR Category: Not listed.
- **8.2** 49 CFR Class: Not pertinent.
- **8.3** 49 CFR Package Group: Not listed.
- **8.4** Marine Pollutant: No
- **8.5** NPFA Hazard Classification: Not listed
- **8.6** EPA Reportable Quantity: Not listed
- **8.7** EPA Pollution Category: Not listed.
- **8.8** RCPA Waste Number: Not listed
- **8.9** EPA FWPCA List: Not listed

### 9. PHYSICAL & CHEMICAL PROPERTIES
- **9.1** Physical State at 15°C and 1 atm: Liquid
- **9.2** Molecular Weight: 160.36
- **9.3** Boiling Point at 1 atm: 392°F (200°C) = 473.2 K
- **9.4** Freezing Point: −59.8°F = −51°C = 222.2 K
- **9.5** Critical Temperature: Currently not available
- **9.6** Critical Pressure: Currently not available
- **9.7** Specific Gravity: 0.941
- **9.8** Liquid Surface Tension: Currently not available
- **9.9** Liquid Water Interfacial Tension: Currently not available
- **9.10** Vapor (Gas) Specific Gravity: 0.93
- **9.11** Ratio of Specific Heats of Vapor (Gas): Currently not available
- **9.12** Latent Heat of Vaporization: Currently not available
- **9.13** Heat of Combustion: Currently not available
- **9.14** Heat of Decomposition: Currently not available
- **9.15** Heat of Solution: Currently not available
- **9.16** Heat of Polymerization: Currently not available
- **9.17** Heat of Fusion: Currently not available
- **9.18** Limiting Value: Currently not available
- **9.19** Reid Vapor Pressure: Currently not available

### NOTES

### JUNE 1999
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**METHYLCYCLOPENTADIENE DIMER**

**SATURATED LIQUID DENSITY**

**LIQUID HEAT CAPACITY**

**LIQUID THERMAL CONDUCTIVITY**

**LIQUID VISCOSITY**

**SOLUBILITY IN WATER**

**SATURATED VAPOR PRESSURE**

**SATURATED VAPOR DENSITY**

**IDEAL GAS HEAT CAPACITY**

JUNE 1999