MATERIAL SAFETY DATA SHEET

Methanol Gel Chafing Fuel

Section 1 – Product Identification

- **Product Name:** Methanol Gel Chafing Fuel
- **Product Description:** A gelled Methanol alcohol-based fuel used for food warming applications in chafing dishes.
- **Chemical Name:** Methanol (Methyl Alcohol)
- **Manufacturer/Supplier:** Sudarshan Fuel & Paints
- **Emergency Contact:** +918767384923

Section 2 – Composition and Ingredients

- **Methanol (CH_3OH)** – CAS# 67-56-1 – **60-90%**
- **Gelling Agent** – Proprietary – **10-40%**

Section 3 – Physical and Chemical Properties

- **Appearance:** Clear to bluish gel
- **Odor:** Alcohol-like odor
- **Boiling Point:** ~65°C (149°F)
- **Melting Point:** N/A (gel form)
- **Flash Point:** ~12°C (54°F) (Closed Cup)
- **Vapor Density (Air = 1):** 1.1
- **Solubility in Water:** Completely soluble
- **Specific Gravity:** 0.79–0.85

Section 4 – Fire and Explosion Hazard Data

- **Flash Point:** ~12°C (54°F)
- **Flammable Limits in Air:**
  - **Lower:** 6%
  - **Upper:** 36%
- **Autoignition Temperature:** ~470°C (878°F)
- **Extinguishing Media:** CO_2, Dry Chemical, Alcohol-Resistant Foam
- **Special Firefighting Procedures:**
  - Use self-contained breathing apparatus (SCBA).
  - Keep containers cool with water spray.
- **Unusual Fire & Explosion Hazards:**
  - Vapors can form explosive mixtures with air.
  - Fire may produce toxic gases such as carbon monoxide and formaldehyde.

Section 5 – Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Conditions to Avoid:** Heat, open flames, sparks.
- **Incompatibilities:** Strong oxidizers, acids, and bases.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, formaldehyde.

Section 6 – Health Hazard Information

- **Routes of Exposure:**
  - **Inhalation:** Vapors may cause dizziness, nausea, or respiratory distress.
  - **Skin Contact:** Prolonged exposure may cause irritation or absorption into the bloodstream.
  - **Eye Contact:** Causes severe irritation; may cause vision impairment.
  - **Ingestion:** Toxic if swallowed; can cause blindness, coma, or death.
- **Acute Toxicity:**
  - **Oral LD50 (Rat):** 5,628 mg/kg
  - **Dermal LD50 (Rabbit):** 15,800 mg/kg
- **Carcinogenic Status:** Not classified as a carcinogen by OSHA, IARC, or NTP.

Section 7 – First Aid Measures

- **Inhalation:** Move to fresh air. If breathing difficulty persists, seek medical attention.
- **Eye Contact:** Flush with water for at least 15 minutes. Seek immediate medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Ingestion:** Do **not** induce vomiting. Drink water or milk and seek immediate medical help.

Section 8 – Handling and Storage

- **Handling:**
  - Avoid breathing vapors.
  - Keep away from heat, sparks, and flames.
  - Use in a well-ventilated area.
- **Storage:**
  - Store in a cool, dry place (below 40°C/104°F).
  - Keep containers tightly closed.
  - Keep away from oxidizers and ignition sources.

Section 9 – Exposure Controls and Personal Protection

- **OSHA PEL (Permissible Exposure Limit):** 200 ppm (TWA)
- **NIOSH REL:** 200 ppm (TWA), 250 ppm (STEL)
- **Engineering Controls:**
  - Use local exhaust ventilation to minimize exposure.
- **Personal Protective Equipment (PPE):**
  - **Eyes:** Safety goggles or face shield.
  - **Skin:** Chemical-resistant gloves.
  - **Respiratory:** Use a NIOSH-approved respirator if ventilation is inadequate.

Section 10 – Environmental and Disposal Information

- **Environmental Effects:**
  - Highly toxic to aquatic life.
  - Avoid release into water sources.
- **Disposal Considerations:**
  - Dispose of in accordance with local, state, and federal regulations.
  - Do not pour into drains or water sources.

Section 11 – Transportation Information

- **DOT Classification:** Flammable Liquid (Class 3)
- **UN Number:** UN1230
- **Packing Group:** II
- **IMDG Hazard Class:** 3
- **IATA:** Prohibited on passenger aircraft above specific volumes.

Section 12 – Regulatory Information

- **OSHA Hazard Classification:** Flammable Liquid, Toxic Material
- **TSCA Status:** Listed
- **CERCLA Reportable Quantity (RQ):** 5,000 lbs
- **SARA Title III Section 313:** Methanol is a listed toxic chemical

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Section 13 – Other Information

- **HMIS Ratings:**
  - **Health:** 2
  - **Flammability:** 3
  - **Reactivity:** 0
- **NFPA Ratings:**
  - **Health:** 2
  - **Flammability:** 3
  - **Instability:** 0

Disclaimer: The information provided is accurate to the best of our knowledge but is not a guarantee of the product's safety. The user is responsible for ensuring proper handling and compliance with all applicable regulations.