MATERIAL SAFETY DATA SHEET
Wick Chafing Fuel

Section 1 – Product Identification

Product Name: Wick Chafing Fuel (3, 4 & 6 hours)
Product Description: A liquid chafing fuel containing Diethylene Glycol, dispensed via a wick from a sealed metal or plastic bottom can. Designed for use in food warming applications.
Supplier: Sudarshan Fuel & Paints

Emergency Phone: +918767384923

Section 2 – Composition / Ingredients

Chemical Name: Diethylene Glycol
CAS Number: 111-46-6

Section 3 – Physical and Chemical Properties

- **Boiling Point**: 245°C (473°F)
- **Vapor Pressure**: <0.01 mmHg @ 20°C
- **Vapor Density (Air = 1)**: 3.66
- **Melting Point**: -9°C (16°F)
- **Solubility in Water**: 100%
- **Specific Gravity (H_2O = 1)**: 1.1
- **Density**: 9.3 lbs./gallon
- **Appearance and Odor**: Clear, colorless, slightly viscous liquid; practically odorless.

Section 4 – Fire and Explosion Hazard Data

- **Flash Point (PMCC)**: >120°C (250°F)
- **Flammable Limits in Air (% by volume)**:
    - Lower: 2%

    - Upper: 12.3%
- **Auto-ignition Temperature**: 224°C (435°F)
- **Extinguishing Media**: Water spray, CO_2, dry chemical, foam
- **Special Fire Fighting Procedures**:
    - Stop the source of the flame.
    - Shut off ignition sources.
    - Keep containers cool with water spray.
    - Wear self-contained breathing apparatus (SCBA) and protective firefighting clothing to avoid inhaling vapors.
- **Unusual Fire and Explosion Hazards**: None known.

Section 5 – Stability and Reactivity

- **Stability**: Stable under normal handling and storage conditions.
- **Conditions to Avoid**: Exposure to high temperatures and contact with strong oxidizers.
- **Incompatibility**: Avoid contact with strong oxidizers, acids, and bases.
- **Hazardous Decomposition Products**: Carbon monoxide (CO) and carbon dioxide (CO_2) may form when burned.
- **Hazardous Polymerization**: Will not occur.

Section 6 – Health Hazard Information

Emergency Overview: Diethylene Glycol is toxic if ingested and may cause harm to the central nervous system and kidneys.

Precautionary Labeling:

- Harmful if swallowed; keep away from children.
- If ingested, give milk or water and seek medical attention immediately.

Health Effects:

- **Eye Contact**: May cause irritation.
- **Skin Contact**: May cause irritation with prolonged exposure.
- **Ingestion**: Harmful or potentially fatal if swallowed. Symptoms may include dizziness, vomiting, drowsiness, coma, respiratory failure, kidney damage, and possibly death.
- **Inhalation**: Inhalation of unburned vapors should be avoided. Use in a well-ventilated area.

Medical Conditions Aggravated by Exposure: Repeated exposure may worsen pre-existing liver and kidney conditions.

Exposure Limits: No established occupational exposure limits from OSHA, ACGIH, or NIOSH.

Toxicity Data:

- **Acute Oral LD50 (rat)**: >13 g/kg
- **Acute Dermal LD50 (rabbit)**: >13 g/kg

Carcinogenicity: Not classified as a carcinogen based on long-term animal studies.

Hazard Rating (HMIS):

- Health: 2 (Moderate)
- Flammability: 1 (Slight)
- Reactivity: 0 (Minimal)

Section 7 – First Aid Measures

- **Eye Contact**: Immediately flush eyes with water for at least 15 minutes. If irritation persists, consult a medical professional.
- **Skin Contact**: Remove contaminated clothing. Wash affected skin with warm water for at least 15 minutes. If irritation continues, seek medical advice.
- **Ingestion**: If swallowed, drink small amounts of water or milk. Seek medical attention immediately.
- **Inhalation**: Move to fresh air and take deep, slow breaths. Drink water if necessary. Seek medical attention if coughing or irritation persists.

Section 8 – Handling and Storage

Storage Conditions:

- Store in a cool, dry place (between 4-49°C / 40-120°F).
- Ensure adequate ventilation during storage.
- Keep container tightly closed when not in use.
- Keep away from heat, sparks, open flames, and direct sunlight.

Handling Precautions:

- Avoid contact with skin and eyes.

- Avoid inhaling vapors or fumes.
- Always recap the container after use.
- Use in well-ventilated areas, and avoid working in confined or poorly ventilated spaces.

Section 9 – Accidental Release Measures

Small Spills:

- Remove all ignition sources.
- Provide adequate ventilation.
- Absorb the spill using an inert absorbent material (e.g., vermiculite, sand).
- Wash the affected area with water after absorbing the spill.

Section 10 – Special Protection Information

Personal Protection:

- Normally, no special eye or skin protection is required.
- If prolonged skin contact is anticipated, wear protective gloves.
- Wash hands thoroughly after handling.
- Remove contaminated clothing and wash before reuse.

Ventilation:

- Use only in well-ventilated areas.
- Open windows or doors to increase airflow if necessary.

Section 11 – Transportation Information

Regulatory Classification:

- **IATA (Air Transport)**: Not classified as a dangerous good.
- **US DOT Hazard Class**: Not classified as hazardous.
- **US DOT Identification Number**: Not applicable.
- **IMO Hazard Class**: Nonhazardous.

Section 12 – Ecological Information

Environmental Impact:

- Highly soluble in water and unlikely to persist in the environment.
- Not significantly toxic to aquatic life.
- May pose risks to amphibians or wildlife if ingested.
- Readily biodegradable in soil and water.
- Due to its high solubility and biodegradability, it is unlikely to bioaccumulate.

Section 13 – Disposal Considerations

Disposal Guidelines:

- Dispose of empty or partially filled containers in accordance with local, state, and federal regulations.
- Do not release into sewers, water bodies, or on the ground.

Disclaimer

The information provided in this document is accurate to the best of our knowledge and is based on current safety and regulatory data. However, no warranty or guarantee is made regarding its accuracy or reliability. The user is responsible for ensuring the product's suitability for their specific application and for complying with all local regulations.
