

MATERIAL SAFETY DATA SHEET (MSDS)

1. DF-EB LUB™ SAFETY DATA SHEET

- **Product Name** : DF- EB LUB
- **Chemical characterization** : Ester of Natural Fatty acid
- **CAS Registry Number** : Proprietary Blend

PROPERTIES

- **Physical state** : Liquid
- **Appearance** : Amber to brown color liquid
- **Odor** : Fatty
- **Solubility** in water : Not Soluble
- **Soluble** in organic solvents : Hydrocarbons
- **Specific Gravity** : 0.90 – 0.93 (@ 25oC)
- **Flammability characteristics** - Flash Point : > 190 OC Auto ignition temperature

2. HAZARDS IDENTIFICATION

- Adverse human health effect: No specific risk when handled in accordance with good occupational hygiene and safety practice.
- Environmental effects : Negligible effect
- Physical and chemical hazards: Non-combustible material.
- Flash Point > 100 °C–
- Fire or explosion: Requires a source of ignition, presence of air and temperature greater than the flash point.
- Further hazards : No specific hazards under normal conditions of use
- Slightly hazardous in case of skin contact (irritant),
- In case of eye contact (irritant),
- Slightly hazardous in ingestion, of inhalation

3. TOXICITY

- **TOXICITY**: Acute Oral Toxicity : LD50 >2000 mg / kg body weight

4. FIRST AID MEASURES

- **Eye contact** : If this chemical contact the eyes, immediately wash the eyes with large amount of Water occasionally lifting the lower and upper eyelids. If irritation persists get a medical attention immediately.
- **Skin contact**: Rinse with plenty of water and soap.
- **Ingestion**: Call a doctor who will decide whether a stomach washout is necessary.
- **Inhalation**: Move the affected person away from the contaminated area and into the fresh air. Make affected person rest.

5. FIRE AND EXPLOSION DATA

- Extinguishing media Suitable : Foam Carbon dioxide (CO2)
- Multipurpose powders (dry powder)
- Not suitable : Water can cause frothing

Specific Hazards:

- Combustion products: carbon dioxides and products of incomplete combustion.
- Class B Fire: Application of water to burning oil can cause spattering. Oil will float on water.
- Fire fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

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- **Risk of Explosion:** Possible risk of auto-ignition/spontaneous combustion under high temperature/closed containers if material is absorbed on various fiber matrices and if oxygen is present

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Avoid contact with skin and eyes, wear appropriate gloves.
- **Environmental precautions:** Avoid discharge into drains / sewers or waterways.
- **Cleaning up Procedure:** Recover the product by absorbing with sand and shoveling or sweeping.

7. HANDLING AND STORAGE

- **Handling:** Handle and use in accordance with good occupational hygiene and safety practice.
- Do not mixed with any incompatible material . Use proper PPE when using the product.
- **Storage:** Store in a cool, dry place with proper ventilation and away from sunlight and incompatibles. Keep in a room temperature.
- **Incompatible products:** Strong oxidizing agents.
- **Packaging:** Product should be stored in the original packaging. : Steel drums.
- **Storage Life:** Physically and chemically stable for more than 24 months when stored in the original unopened sales container at ambient.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Personal protective equipment**
- **Respiratory protection:** Use general mask when using this product.
- **Hand protection:** Impermeable gloves are recommended if extended exposure anticipated.
- **Eye protection:** The use of suitable eye protection (goggles) is recommended.
- **Skin protection:** Normal working clothes.
- **Other protecting equipment :** Eyewash fountains and deluge shower should be provided in areas where there is any possibility that the workers could be exposed to the substances

9. WASTE AND DISPOSAL

- Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
- **Container Disposal:** Recommend crushing, puncturing or other means to prevent unauthorized recycling of used containers. Dispose of in a licensed landfill

10. STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions of use.
- **Material to avoid:** React with acids to liberate heat. Heat is also generated by interaction with caustic solution.
- **Strong oxidizing acids** may cause a vigorous reaction that is sufficiently exothermic to ignite the reaction products.
- **Flammable hydrogen** is generated by mixing with alkali metals and hydrides.
- **React slowly with oxygen** in the air to become rancid.
- **Hazardous decomposition products:** No dangerous reaction, decomposition products known with common products.
- **Hazardous Polymerization:** Will not occur.

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11. SPECIAL RECOMMENDATIONS

- **Other Special Considerations:** The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties. This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely the users' responsibility

