

Material Safety Data Sheet



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I / PRODUCT - COMPANY IDENTIFICATION

Material Identification: *Fire Resistant Hydraulic Fluid Lubrisix*
Product Code: 200' Series: 2511 - 300' Series: 2330
General Use: *Safety Hydraulic Fluid, based polyoléster, HFDU*

Supplier: **Tecnifos S.A.**
1490 J.M. Paz St
(B1744GOD) Moreno – Buenos Aires
Argentina

Emergency Phone: +54 237 466 - 3000
+54 237 405 - 8100
+54 11 4658–7777 National Center for Intoxicated
+54 911 5185 1983 Technical Assistance

II / COMPOSITION - INFORMATION ON INGREDIENTS

Hazard components: This product does not contain hazardous components.

III / HAZARD IDENTIFICATION

Potential health effects:

Eyes: Will cause a mild eye irritation. None specified effects.

Skin: Mild irritant, causing possibly superficial inflammation, especially by prolonged contact with oily skin.

Ingestion: Extremely high oral doses may produce gastrointestinal upset.

Inhalation: Avoid aerosols. Aerosols will cause coughing.

Chronic Exposure: No adverse health effects are expected.

Worsening of pre-existing conditions:

No adverse health effects are expected

All information including procedures, properties and formulations discussed in this newsletter, is estimated to be correct. However, there must be accepted as a guarantee of accuracy, confirmatory tests must be made in your own labs. Similarly the recommendations made do not imply any guarantee since the conditions of product use are beyond our control.

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IV / FIRST AIDS

- Eyes:** Wash immediately with water for at least 15 minutes. Get medical attention.
- Skin/Clothes:** Remove contaminated clothing. Wash contacted areas with soap and water. It does not produce burns at simple contact.
- Ingestion:** Do NOT induce vomiting. Give a glass of water. Get immediately medical attention.
- Inhalation:** Removed exposed person to fresh air. Get medical attention. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Get immediately medical attention.

V / FIRE FIGHTING MEASURES

- Fire and Explosion:** Flash Point (COC) > 290°C (Fire resistant product)
- Firefighting procedures:** Recommended wearing self-contained breathing apparatus and safety clothes. Structural suit is recommended only for fires. Water may cause splattering. Material will float on water.
- Extinguishing media:** CO₂, dry chemical, foam or water fog.
- Unusual Fire:** Self – extinguishing below 450°C
- Decomposition products:** Carbon dioxide, and, if combustion is incomplete, carbon monoxide and acrid fumes. There is risk of an explosion from this product if it is involved in a fire.
- NFPA:**
- | | |
|-----------------------|----------|
| Health | 1 |
| Inflammability | 1 |
| Reactivity | 0 |

VI / ACCIDENTAL RELEASE MEASURE

Main consideration is to avoid fire and sparks. Aerate quickly the place. Prevent entry into sewers and waterways. Great amount: collect into suitable containers. Small spills: Soak up with sand, oil dry or other absorbent material. Avoid using combustible material like sawdust. Caution: produce slippery surface. Do NOT walk over spill material.

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VII / HANDLING AND STORAGE

- Storage procedure:** Storage area should be covered to prevent rain water from entering. Avoid contact with strong oxidizing. Storage temperature: +5 to 30°C. Stored in Flammable zone.
- Handling procedures:** Wear full protective chemically resistant clothing including gauntlets, eye protection, apron and security shoes even when this product is handling or fractional. Do NOT eat, drink or smoke when this product is used. Close containers after use. Ground container and eliminate static electric sparks. Do NOT reuse container with others products. Do NOT move containers without their cap. Do NOT blend whit others products. Do NOT quit containers outdoor. Do NOT pile up improperly. Do NOT cut, weld, braze, solder, drill or grind.

VIII / EXPOSURE CONTROLS - PERSONAL PROTECTION

- Ventilation procedures:** Not required.
- Hands:** Use PVC – nitrile, Vitton or Medium to high nitrile rubber gloves.
- Eyes and face protection:** Chemical goggles or faceshield.
- Respiratory protection:** Not required
- Clothing:** Use PVC or nitrile rubber boots when necessary to avoid contaminating shoes.
When working is recommended long sleeve shirt.
Wear chemical protective suit when potential for contact with material exist.
- Exposure standards:** TWA: 100 ppm (OSHA PEL)

IX / PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Oil ambar clear fluid
- Density (Gravity at 20° C):** 0.915 – 0.920 g/ml
- Flash point (COC) ASTM D 92:** > 290°C
- Solubility in Water** Not soluble

For more information, see Technical Data Sheet

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X / STABILITY AND REACTIVITY

- Stability:** Material is stable under recommended conditions.
- Incompatibility:** Strong oxidizing agents.
- Polymerization:** Will not occur.

XI / TOXICOLOGICAL INFORMATION

Acute Oral Toxicity, LD ₅₀	<10ml/kg
Primary Irritation Index	1.46
Contact Hypersensitivity	Negative
Eye Irritation Index (Draize Scale)	0.0

XII / ECOLOGICAL INFORMATION

Biodegradability: Over a 21-day period it measures the conversion rate of CH₃-CH₂ molecular groups to CH₂ caused by biological activity. **LUBRISIX** Structures are 94.5% converted to CO₂ under this procedure and readily comply with all proposed criteria. After seven days, more than 60% of structure has been converted. Vegetable oil-based hydraulic fluids generally display a comparable rate of biological degradation. Mineral oil-based hydraulic fluids exhibit a maximum conversion rate of 50%.

XIII / DISPOSAL CONSIDERATION

Must be disposed of by special means, e.g. suitable incineration in accordance with local regulation.

XIV / TRANSPORT INFORMATION

Not regulated

XV / REGULATORY INFORMATION

Not regulated

XVI / OTHER INFORMATION

The data in this material safety data sheet, relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process without authorization of Tecnifos S.A.

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