



MATERIAL SAFETY DATA SHEET

Product **SEMI FLUID BOX LUBE**

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Revision Date: 30/06/2005

Date of issue: 23/12/1993

LABEL

LABELLING (of use or EU) Not concerned
Risks Phrase None
Advice and Care None
TRANSPORT LABELLING Not concerned

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **SEMI FLUID BOX LUBE**
Product Code DYN11
Intended Use Extreme Pressure Resistant Lubricant for Transmissions and Steering Racks.

Supplier Dynolite
ZAC du Cornouiller
78870 Bailly
Phone: +33 (0)1 30 80 20 30
Fax: +33 (0)1 30 80 21 50

Emergency ORFILA (Phone No) : +33 (0)1 45 42 59 59

2. COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION
Chemical Nature Product based on mineral oils highly refined from petroleum origin which content of Polycyclics Aromatic Hydrocarbons (PAH) is less than 3%, according to the IP 346 regulation.

Reportable Hazardous Substance	EU #	CAS #	Concentration	Symbol	Risk
Zinc Alkyldithiophosphate	272-028-3		<2.5%	Xi, N	R-36, 51/53

Report to section 16 for more information related to the risk classification codes.

3. HAZARDS IDENTIFICATION

Health Effect Under normal conditions of use, this product does not present any danger to intoxication.
Environnement Effect Do not discharge this product in the environment.
Physio-Chemical Hazard Under normal conditions of use, there is no particular risk of fire or explosion.

4. FIRST AIDS MEASURES

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR ASK FOR EMERGENCY MEDICAL CARE

INHALATION Inhalation of high concentrations of vapors, fumes or spray may irritate the upper respiratory ways.
Transport the person to fresh air, keep the person warm and at rest.

INGESTION Possible risks of diarrhea and vomiting.
Do not induce vomiting to avoid the risk of drawing up into the respiratory ways.
Do not drink.



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SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water during at least 15 minutes, if irritation still occurs, seek for medical assistance.

INGESTION

If there was drawing up into the lungs, transport the person immediately to the emergency hospital.

5. FIRE FIGHTING MEASURES

Report to section 9 – Physical and chemical Properties

EXTINGUISHING MEDIA

- Appropriate:

Use Foam, Carbon Dioxide (CO₂) or Dry Chemical to extinguish flames.

- Inappropriate:

NEVER use straight streams of water (Fire Hose) as it could favor the fire dispersal.

FIRE FIGHTING INSTRUCTIONS

Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Report to section 8 and 13

SPILL/LEAK MANAGEMENT

- Land Spill:

Product spills may make surfaces slippery.

Prevent product from spilling into sewers or into water streams or contaminate the soil.

Stop leak if you can do it without risk. Recover with mechanical means (pumps, skimmers, etc) or with suitable absorbent.

- Water Spill:

Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents.

Seek the advice of a specialist before using dispersants.

If the product is spilled in water streams or sewers, notify to the authorities of the possible presence of floating material.

7. HANDLING AND STORAGE

HANDLING:

Workers Preventing Exposure

Provide adequate ventilation in case of risk of formation of vapors, fumes, mists or aerosols.

Adopt all necessary measures to reduce the risk of exposure, especially to products being used or the waste.

Fire and Explosions Prevention

Empty containers may contain flammable or explosive vapors.

Product-soaked rags, papers or material used to absorb spills present a potential fire hazard, avoid their accumulation and dispose them off immediately and safely after use.



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Cautions

Avoid the accumulation of static electricity by connecting all equipments to the ground.
Design facilities to avoid the risk of accidental spills (Seal failure) on hot casings and electrical contacts.

STORAGE

Storage Conditions

- **Advised:**

Store at room temperature, away from water, humidity and all sources of ignition.
Keep containers closed all the time when not in use.

- **Avoid:**

Storage subjected to weather conditions.

Packaging Materials

- **Advised:**

Use only containers, gaskets, pipes, etc... resistant to hydrocarbons.
Store preferably in the original packaging.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Technical Measures

Use the product in a properly ventilated atmosphere.
In the case of work in confined spaces (tanks, etc...), ensure a breathable atmosphere and/or wear the recommended equipments.

Exposure Limits Values

For France, No limits are known.

Hand Protection

Waterproof and hydrocarbons resistant gloves (nitrile, neoprene).

Eye Protection

Safety glasses with side shields are recommended in case of spitting.

Skin and Body Protection

According to needs, face shield, boots, product resistant clothing, security shoes (in the case of handling of barrels).
Do not wear rings, watches or anything similar which can retain the product and cause a skin reaction.

Specific Hygiene Measures

Avoid prolonged or repeated contact with skin, especially with new or used oils.
Take off immediately all contaminated clothing.
After contact with skin, wash immediately and thoroughly with soap and water. Do not use abrasives, solvents or fuel.
Do not dry hands with rags that have been contaminated with oil.
Do not place the product-soaked rags into the pockets of working clothes.
Do not eat, drink and smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physic State

Thick

Color

Amber

Odor

Characteristic

Relative Density

Not determinated

Drop Point

> 140°C relating to NF T 60-102 French Standards

Flash Point

N/A

Auto-Ignition Temperature

> 250°C

Solubility in Water

Indissoluble – Non miscible

Solubility in Organic Solvents

Soluble in many common solvents

Temperature of Use

-20°C to +140°C



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10. STABILITY AND REACTIVITY

Stability	Product is stable under normal conditions of storage, handling and use.
Conditions to avoid	Excessive heat (temperatures above the Flash Point). High energy sources of ignition, sparks, flames, static electricity.
Materials to avoid	Avoid contact with strong oxidizers.
Hazardous Decomposition Products	Incomplete combustion and thermolysis produces gases of varying toxicity such as CO, CO ₂ , various hydrocarbons, aldehydes and soots.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY – LOCAL EFFECT:

Inhalation	Improbable risk in normal condition of use.
Skin Contact	Probably slightly galling DL 50 considered > 2000 mg/kg
Ingestion	DL 50 considered > 2000 mg/kg

CHRONIC TOXICITY OR LONG TERM:

Skin Contact	Characteristic skin injuries (oil blisters) may develop following prolonged and repeated contact with contaminated clothing.
Sensitization	No data available on the finished product
Cancerogenity	Not carcinogenic

12. ECOLOGICAL INFORMATIONS

Ecotoxicity commentary	No experimental data on the finished product.
Persistence and Degradability	No experimental data on the finished product. However, the fraction "mineral oil" of the finished product is inherently biodegradable. Some components may not be biodegradable.
Mobility	- Air: There is little loss by evaporation. - Water: Indissoluble, the product floats on surface or sediment. - Soil: Given its physico-chemical characteristics, the product is little mobile in the ground.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Waste disposal in accordance with local regulations When appropriate, collection by a licensed collector and regeneration and/or burnout in a licensed facility.
Contaminated Packaging Disposal	Comply with current legislation
Waste Class	13 01 12



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Laws and Regulations

- France :
Recommendation relating to the waste list of 11.11.97
See waste list (JOCE : L 349 du 16/02/2001)
Law n° 75-633 du 15.07.75 modified, relating to the disposal of waste and materials recycling.
- Regulation relating to the collect of used oils:
Decree 79-981 of 21.11.79 and order of 28.01.99, relating to the collect and condition of elimination.
Law n°88-1261 of 30.12.88 concerning import, export and transit of waste.
Decree n°77-254 of 08.03.77 relating to the regulation of dumping and/or spilling oils and lubricants in the water.

14. TRANSPORT INFORMATION

Not concerned by Transports Regulations below:

Land (ADR) : Not Regulated

Rail (RID) : Not Regulated

River (ADNR) : Not Regulated

Sea (IMO/IMDG) : Not Regulated

Air (OACI/IATA) : Not Regulated

15. REGULATORY INFORMATION

When used for its intended purposes, this material is not classified as hazardous.

Risks Phrase None

Care Advices None

European Guidelines Guidelines 1999/45/CE modified (D. 2001/60/CE), relating to hazardous preparation.

French Regulations

Social Security Code Article L 461-6, Art. D.461-1, annex A, n°601
Table of Professional Diseases n°36, n°49, n°49 Bis

Labour Code Article R.241-50, order of 11.07.77

16. OTHER INFORMATIONS

This Safety Sheet complies with the standards set by the guidelines 91/15EEC, 93/112/EEC, 2001/58/CE and to the article 14 of the guideline 1999/45/CE.

For France, in case of intoxication, call your local Anti-Poison Center and/or the Emergency Services (15), see also ORFILA (Phone No): +33 (0) 01 45 42 59 59



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Explanations relating to Risks « R »

R-36 Galling for the eyes.

R-51/53 Poisonous to aquatic organisms, may cause harmful long-terms effects on aquatic environment.

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Cancel and replace the sheet of

23/12/1993

This data sheet complements the technical sheets but does not replace them. All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as the date mentioned.

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