

Product**LEAD SUBSTITUTE**

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Revision Date: 08/04/2010

Date of issue: 11/01/2006

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 **LEAD SUBSTITUTE**
Product Code DYN10
Intended Use Fuel Additive

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 Oil slightly refined and Additive based on Carboxylate of Potassium.

Reportable Hazardous Substance	EU #	CAS #	Concentration	Symbol	Risk
Potassium Carboxylate			<1.8%	Xi	R-36/38, 52
Kérosène	232-366-4		<0.9%	N, Xn	R-51/53, 10, 38, 65
Petroleum naphtha	265-191-7		<0.5%	N, Xn	R-51/53, 10, 38, 65

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

3. HAZARDS IDENTIFICATION

Irritant

Specific indications concerning hazards for Human and Environment:

The product is to be labeled according to the method of calculation from the "General Classification Guideline for the preparations made in the EU" in the recognized version.

R36/38 Irritating for the eyes and the skin
R41 Risks of serious eyes injuries
R51/53 Poisonous to aquatic organisms, may cause harmful long-terms effects on aquatic environment.
R67 Inhalation of vapors can cause vertigo and drowsy state

Classification System:

The classification correspond to the EEU current list and is completed by some indications extracted from specialized publications.



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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.

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) is compulsory because of the abundance emissions of smoke and gases.

6. ACCIDENTAL RELEASE MEASURES

Report to section 8 and 13

SPILL/LEAK MANAGEMENT

- **Land Spill:**

Product spills may make the ground slippery.

Avoid product spills in water streams and sewers or contamination of the soil.

Recover with mechanical means (pumps, skimmers, etc...)

- **Water Spill:**

Remove from the surface by skimming or with suitable floating absorbents. Collect using mechanical means.

If the product is spilled in water streams or sewers, notify to the authorities.



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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.
Keep away from flammable material, keep the product away from foods and beverages.

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.

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

None

Hand Protection

Waterproof gloves (nitrile, neoprene).

Eye Protection

Safety glasses 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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physic State	Liquid
Color	Pink
Odor	Alcohol Characteristic
Relative Density	817 kg/m ³ at 20°C
Flash Point	> 28°C
Flash Point Interval	23°C < Pe < 55°C
Burning Temperature	420°C
Explosion Hazards	Product is not explosive
Solubility in Water	Soluble
Solubility with solvents	Soluble in most of the alcohols

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	Material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY – LOCAL EFFECT:

Inhalation	Improbable hazard in normal condition of use. Inhalation of high concentrations of vapors, fumes or spray may irritate the upper respiratory ways.
Skin Contact	Improbable risk in normal condition of use.
Ingestion	Unlikely damage in the event of ingestion of small quantities. In case of ingestion of larger amounts: abdominal pain, diarrhea, etc... can occur.

CHRONIC TOXICITY OR LONG TERM:

Sensitization	To our knowledge, the product do not provoke any sensitization.
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12. ECOLOGICAL INFORMATIONS

Ecotoxicity	The product is not considered hazardous to terrestrial plants. It is considered as little dangerous to aquatic organisms. No information is available for used product.
Mobility	Soil: Mobile in the soil Air: Evaporate and disperse in the atmosphere
General Information	Product slightly contaminant for water, biologically decomposable.

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13. DISPOSAL CONSIDERATIONS

Recommandations	Must be eliminated according to the current laws and regulations of the country
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
Class :	No Transport Restrictions
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
Labor Code	Article R.241-50, order of 11.07.77



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16. OTHER INFORMATION

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

Explanations relating to Risks « R »

- R-10 Flammable
- R-36/38 Irritating for the eyes and the skin
- R-38 Irritating for the skin
- R-41 Risk of serious eyes injuries
- R-51/53 Poisonous to aquatic organisms, may cause harmful long-terms effects on aquatic environment.
- R-52 Harmful to aquatic organisms
- R-65 Harmful: may cause lungs damage if swallowed

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Cancel and replace the sheet of 11/01/2006

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. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet. The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from Dynolite. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Dynolite company shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. This list can not be considered as exhaustive. The user must ensure that other obligations does not lies because of texts other than those mentioned.