



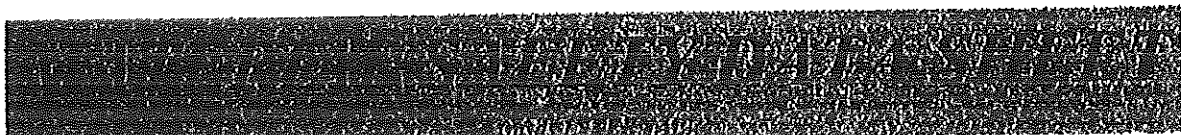
**TRANSPORT  
EFFICIENCY**

170

08702

P.O. Box 777  
4200 AT  
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The Netherlands  
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Approved for use | Approved for Int. Use only.



Issued: 25 November 1999

Internal no.: TE9911.007

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**Greenlube EP-0**

<b>TRADE NAME:</b>	Greenlube EP-0
<b>APPLICATION:</b>	Lubricant
<b>SUPPLIER:</b>	Groeneveld Transport Efficiency B.V.
<b>ADDRESS:</b>	Stephensonweg 12 4207 HB Gorinchem
<b>POST ADDRESS:</b>	P.O. Box 777 4200 AT Gorinchem
<b>PHONE:</b>	+ 31 183 641400
<b>TELEFAX:</b>	+ 13 183 641452

No.	Name:	CAS-no.	Conc. (w%)	Classif.
1	Composition of lithium-detergent soap, mineral oil and additives.			

Legend: Tx=Very toxic, T=Toxic, C=Corrosive, Xi=Harmful, Xn=Irritant, IX=No classification required, P=Explosive, O=Oxidising, F+ =Extremely flammable, F=very flammable, F+ = flammable, N= Dang. to the environment, Mu=Genotoxic, Sen.=Sensitizing, Carc.=Carcinogen, Repr.=Causes birth defects

-	-	-	-
(Health classif.)	(Health classif.)	(Env. Classif.)	(Env. Classif.)



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**Greenlube EP-0**

#### GENERAL

No hazards which require special first aid measures.

#### INHALATION

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

#### SKIN CONTACT

Wash off with soap and plenty of water.

#### EYE CONTACT

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

#### INGESTION

Do not induce vomiting.

#### EXTINGUISHING MEDIA

Dry powder, foam, carbon dioxide (CO<sub>2</sub>), dry sand water spray. Do not use a solid water stream as it may scatter and spread fire.

#### FIRE AND EXPLOSION HAZARDS

Burning produces irritant fumes.

#### OTHER INFORMATION

Do not allow material to contaminate ground water system. Do not contaminate surface water. Should not be released into the environment. Prevent product from entering drains.

#### STORAGE

No special storage conditions required.

#### EYE PROTECTION

Avoid contact with eyes.

#### HAND PROTECTION

Latex gloves, rubber gloves

#### SKIN PROTECTION

Remove and wash contaminated clothing before re-use



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## Greenlube EP-0

Appearance	: paste		
Colour	: green		
Odour	: oily		
Solubility	: miscible with most organic solvents		
Melting point/range	:	Boiling point/range	:
Density	: <1000	Flash point	: >150°C
Exp. limit IEL-UEL%	:	pH concentrate	:
Solubility in water	: rarely		

### STABILITY

This product is stable under normal conditions.

### HAZARDOUS DECOMPOSITION PRODUCTS

Sulphur compounds Carbon monoxide.

### GENERAL

Prolonged exposure Irritability Skin.

### INHALATION

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

### SKIN CONTACT

May cause skin irritation of susceptible persons.

### EYE CONTACT

May cause eye irritation of susceptible persons.

### INGESTION

Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.



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**Greenlube EP-0**



**OTHER INFORMATION**

No information available



In accordance with local and national regulations.



**GENERAL**

Not classified as dangerous in the meaning of transport regulations.



**CLASSIF.:**

-	-	-	-
-	-	-	-
(Health classif.)	(Health classif.)	(Fire Classif.)	(Env. Classif.)

**COMPOSITION**

Composition of lithium-calcium soap, mineral oil and additives.



**REVISION DATE** : 25 November 1999

**REPLACES MSDS OF** : 11 January 1999

**VENDOR NOTES**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication, and is not to be considered a warranty or quality specification.

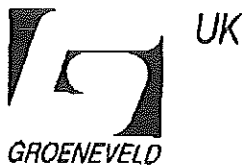
**USER NOTES**

**C.O.S.H SHEET****PRODUCT: GREENLUBE EP-0 GREASE****1. GENERAL INFORMATION**

- 1.1 CHEMICAL DESCRIPTION : A Lead free lithium/calcium grease consisting of mineral oils and additives for anti-oxidation, anti-corrosion and extreme pressure.
- 1.2 MANUFACTURERS CODE : \_\_\_\_\_
- 1.3 CONSISTANCY : Soft and smooth grease.
- 1.4 COLOUR : Green.
- 1.5 SMELL : Like paraffin.
- 1.6 EINECS : N/A.
- 1.7 APPLICATION : Lubrication of all types of sleeve bearings, ball and roller bearings. Application range between -25c and +130c.

**2. CHEMICAL AND SAFETY TECHNICAL INFORMATION**

- 2.1 CHANGE IN AGGREGATION CONDITION  
DRIPPING POINT (ASTM D-556) : None.
- 2.2 DENSITY : BASIC OIL (AT 15c)  
(ASTM D-1298) : Approx 900 kg/cm<sup>3</sup>.  
ILLUSIONAL DENSITY : \_\_\_\_\_
- 2.3 DAMP PRESSURE (AT 20c)  
(CALCULATED) : 6.5 to 10.5 PA.
- 2.4 VISCOSITY  
KINEMATIC (AT 40c) (ASTM D-445) : 200 mm<sup>2</sup>/sec.
- 2.5 DISPERSION IN WATER (AT 20c) : Not dispersonal g/l.
- 2.6 PH (AT G/L IN WATER 20c) : Not relevant.
- 2.7 IGNITION POINT (ASTM D-92)  
(BASIC OIL) : 225c (COC)
- 2.8 SPONTANEOUS IGNITION TEMPERATURE  
(ASTM D-2155) : None.



- 2.9 EXPLOSION LIMITS  
 BOTTOM LIMIT : None.  
 TOP LIMIT : None.
- 2.10 DECOMPOSITION WITH HEAT : Stable at room temperature.
- 2.11 DANGEROUS DECOMPOSITION PRODUCTS  
 BY ROOM TEMPERATURE : None.  
 BY IGNITION : Oxygen or carbon, sulphur and nitrogen.
- 2.12 DANGEROUS REACTIONS : None.
- 2.13 ADDITIONAL INFORMATION  
 AT SPRAY CONDITION OR THERMAL PRESSURE  
 BOTTOM EXPLOSION LIMIT : 0.6%  
 TOP EXPLOSION LIMIT : 6.5%
3. TRANSPORT
- UN-NR : N/A PACKAGING GROUP : N/A
- RAIL/ROAD (RID, VSG/RID, ADR, VLG) :  
 DANGER SECTION: N/A FIGURE AND LETTER : N/A
- AIR (IATA, DGR): DANGER SECTION/DIVISION : N/A
- SEA (IMDGG, HGS): DANGER SECTION : N/A
- RIVERS (ADN/ADNR/VBG):  
 DANGER SECTION : N/A NUMBER : N/A CAT : N/A
4. REGULATIONS
- 4.1 LABELLING : None.
5. SAFETY MEASURES, STORAGE AND HANDLING
- 5.1 TECHNICAL SAFETY MEASURES
- A. STORAGE : Store at room temperature, free of fire/ignition sources, do not store with products with a high oxidation grade, keep containers well sealed.
- B. HANDLING : Protect against light influences, avoid dampness as much as possible, Provide adequate airing in storage places.



## 5.2 PERSONAL SAFETY EQUIPMENT

- A. BREATHING PROTECTION : When oil spray occurs.
- B. PROTECTION OF HANDS : Oil proof tight gloves by intensive skin contact.
- C. EYE PROTECTION : Safety glasses in possibly spray conditions.
- D. OTHER SAFETY EQUIPMENT : Protective clothing.

- 5.3 WORKING ENVIRONMENT HYGIENE:
1. Avoid when possible eye and skin contact.
  2. Exchange dirty and wet clothing.
  3. Observe good personal hygiene.

- 5.4 FIRE AND EXPLOSION PREVENTION : Keep away from any ignition sources.

- 5.5 DISPOSAL : Dispose according to appropriate regulations.

## 6. INSTRUCTIONS IN CASE OF ACCIDENTS OR FIRE

- 6.1 SPILLAGE, LEAKS AND FLOODS : Do not flush into sewage canals. Isolate and clear with absorbent materials.

### 6.2 EXTINGUISHING SUBSTANCES:

- SUITABLE : Powder, foam, water spray, or for smaller fires BFC, CO2. Fires in small areas have to be handled by adequately trained personnel equipped with breathing equipment.
- DO NOT USE : Water jet.



### 6.3 FIRST AID:

- SKIN** : Wash skin thoroughly with water and soap. Change into clean clothing and clean used clothing before re-using again.
- EYES** : Rinse eyes thoroughly with water obtain medical assistance in case eyes continue to look red and continues to be painful.
- SWALLOWING** : Not likely with normal use. When present in the mouth thorough rinsing with water is recommended. Obtain medical assistance when large quantities are swallowed. Do not attempt to vomit.
- INHALING** : Not likely by normal use. When inhaling of gases from overheated product causes irritation or nose and throat, or coughing, bring person in fresh air. Find medical assistance if symptoms persist.

### 6.4 OTHER ARRANGEMENTS

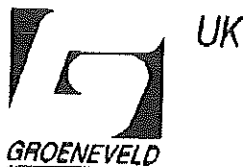
#### MEDICAL ASSISTANCE

Grease injection through the skin caused by contact with high pressure/speed grease jets are serious medical emergencies. Injuries which on first sight do not appear serious can escalate after a few hours, with swelling, discolouring and become very painful because of extensive below skin necrose.

Emergency surgery and thorough cleaning of the wound is necessary to avoid necrose and loss of tissue.

**NOTE:** High pressure can push grease over considerable distances along tissues.





### TOXICOLOGIC INFORMATION

#### Health:

Professional judgement on available information, including biological research results of the material and its components shows that the material and its components shows that the material:

- Probably does not cause skin irritation with short or accidental contact, however with regular contact, especially when combined with bad personal and industrial hygiene can lead to skin irritation and eventually to dermatitis.
- Is irritating to the eyes.
- Probably does not cause any injury with accidental swallowing, although when taken in large quantities stomach and intestine complaints such as diarrhoea and sickness can occur.
- Probably gives no sensitivities of the skin.

### EXPOSURE LIMIT

Not established, the concentration of oil mist predominately based on obstruction to be kept smaller than 5 mg/m<sup>3</sup>.

LD 50 Oral (RAT) : - mg/kg.

### 7. ECOLOGICAL INFORMATION

- 7.1 The product is biologically difficult to degrade.