

**Safety Data Sheet**

**Product name :** UNIGREASE EP 2 Page : 1/6  
SDS n° :58500-39 Version :1.00 Version of :2010-10-01

**PRODUCT LABELS**

LABELLING (standard or EU): Not concerned  
R-phrases : None  
S-phrases : None  
TRANSPORT LABELLING: Not applicable.

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING**

Name of the product : UNIGREASE EP 2  
Code No. : 4YK  
Product application : Lubricating grease  
Supplier : TotalErg S.P.A.  
Via V.Brancati, 60 - 00144 Roma  
Lubricant Division - Via Arconati, 1 - 20135 Milan (MI)  
ITALY  
Tel: +39.02.54068.1  
Fax: +39.02.54068.291  
Contact : asstec.lub@totalerg.it  
Emergency telephones : Anti Poison Centre Hospital Niguarda (Milan): +39 02 66101029 (24 h)  
Anti Poison Centre Hospital A. Gemelli (Rome): +39 06 3054343 (24 h)

**2. HAZARDS IDENTIFICATION**

Health effects : Under normal conditions of use, the product holds no danger of intoxication  
Environmental impact : Do not reject this product into the environment  
Physico-chemical hazards : No specific risk of fire or explosion under normal conditions of use  
Product classification : Dangerous for the environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****PREPARATION**

Chemical nature : The product is made from refined mineral base oils and synthetic oils in which the polycyclic aromatic hydrocarbons (PCA or P14) content, measured by IP 346, is less than 3%.

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Zinc alkyl dithiophosphate	272-028-3	68649-42-3	<2,5 %	Xi ,N	R-38, 41, 51/53

See section 16 for explanations of R-phrases :

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### 4. FIRST AID MEASURES

IN CASE OF SERIOUS OR PERSISTENT MANIFESTATIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Inhalation :	Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat. Transport the person into fresh air, keep warm and allow to rest.
Ingestion :	Possible risk of vomiting and diarrhoea. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract.
Skin contact :	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water. If the skin is exposed to high-pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected.
Eye contact :	Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.

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### 5. FIRE FIGHTING MEASURES

Flash point:  
See heading 9

Extinguishing media :	- suitable: Foam, carbon dioxide (CO <sub>2</sub> ), powder. - not recommended: do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames.
Specific hazards :	Incomplete combustion and thermolysis produce gases of varying toxicity such as CO, CO <sub>2</sub> , various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled.
Protective measures for firefighters :	Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

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### 6. ACCIDENTAL RELEASE MEASURES

See sections 8 and 13.

After spillage / leakage :	- On the soil: Surfaces on which the product has been spilled may become slippery. Do not allow the product to enter sewers or rivers or contaminate the soil. Recover with mechanical means such as pumps and skimmers. Contain and collect the spilled product with sand or any other inert absorbant material. In case of spillage, contact the competent authorities if the situation cannot be brought under control rapidly and efficiently. - On water: Floating absorbant material, then mechanical recovery. If the product is spilled in a river or in the sewers, notify the authorities of the possible presence of floating items.
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### 7. HANDLING AND STORAGE

HANDLING :

Prevention of user exposure :	Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk. Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes. Keep away from combustive substances; keep away from food and beverages.
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**Prevention of fire and explosion :** Empty containers may contain flammable or explosive vapours.  
There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product.  
Avoid accumulate of these: they are to be disposed off safely after use.

**Precautions :** Avoid static electricity build up with connection to earth.  
Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example).

**STORAGE :**

**Technical measures :** Make the necessary arrangements to prevent water and soil pollution.

**Storage precautions :**

- Suitable:  
Store at room temperature, protected against contact with water and moisture, and away from any source of ignition.  
Keep containers closed when not in use
- To be avoided:  
Do not store exposed to the elements.

**Incompatible products :** Dangerous reaction with strong oxidizing agents.

**Packaging materials :**

- Recommended:  
Use only hydrocarbon-resistant containers, joints, pipes, etc.  
Keep in original container if possible.  
Otherwise, transfer all indications on the regulatory label to the new container.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Technical measures :** Use the product in a properly ventilated atmosphere.  
When working on enclosed place (tanks, reservoirs...), make sure that atmosphere is not suffocating and/or wear recommend equipment.

**Occupational exposure limit :**

- . oil mist : 10mg/m<sup>3</sup>, for 15 minutes
- . oil mist : 5mg/m<sup>3</sup>, for 8 hours

**Hand protection :** Impermeable hydrocarbon-proof gloves.  
recommended material: nitrile , neoprene.

**Eye protection :** Goggles, in case of risk of splashing.

**Skin and body (other than the hands) protection :**

As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums).  
Don't wear ring, watch or similar thing which will be able to hold the product and may give rise to some skin diseases.

**Hygienic work practices :**

Avoid prolonged and repeated contact with the skin, especially with used or waste product  
Immediately remove all soiled or stained clothing.  
If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water.  
Use no abrasives, solvents or fuels.  
Do not use cloths stained with the product to dry hands.  
Dont put the product-soaked rags in the pockets of working clothes.  
Do not eat, drink or smoke while handling the product.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** Pasty

**Colour :** Light brown to dark brown

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**Odour :** Characteristic

**Density/specific gravity :** 900 kg/m<sup>3</sup> kg/m<sup>3</sup>  
Temperature (°C) 15

**Température d'auto-inflammation :** > 250 ° C (ASTM E 659)

**Comments on autoignition temperature :** This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...).

**Comments on explosivity :** Not applicable  
Drop point: > 175 °C (NF T 60-102)

**Solubility :** - in water :  
Insoluble and immiscible.  
- in organic solvents :  
Soluble in many common solvents.

**Partition coefficient (log Pow) :** Log Pow > 6  
Temperature (°C) (20°C)

**Penetration index :** 280 NLGI 2 (1/10 mm) at 25°C

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### 10. STABILITY AND REACTIVITY

**Stability :** The product is stable at normal storage, handling and use temperatures.

**Conditions to avoid :** Heat, sparks, ignition points, flames, static electricity.

**Materials to avoid :** Avoid contact with strong oxidizers

**Hazardous decomp. products :** Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO<sub>2</sub>, various hydrocarbons, aldehydes and soot.

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### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity / Local effect :**

**Inhalation, comments:** - Inhalation :  
Risk is improbable under normal conditions of use  
Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.

**Skin contact, comments:** - Contact with skin :  
Risk is improbable under normal conditions of use.  
If the skin is exposed to high-pressure spray, the product may enter the human organism.  
In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected

**Ingestion, comments:** - Ingestion :  
In case of ingestion of small quantities, no important effect observed. in case of ingestion of larger amounts: abdominal pain, diarrhea, ...

### CHRONIC TOXICITY OR LONG-TERM TOXICITY :

**Skin contact :** Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing

**Sensitization :** To our knowledge, the product does not cause aggravated sensitivity.

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### 12. ECOLOGICAL INFORMATION

Comments about ecotoxicity : Experimental data on the finished product are not available.  
no information available for used product

Mobility :  
- Air:  
there is a slow loss by evaporation.  
- Soil:  
Given its physical and chemical characteristics, the product has no soil mobility.  
- Water:  
The product is insoluble; it spreads on the surface of the water

Persistence and degradability : No experimental information about the finished product.  
However the "mineral oil" fraction of the new product is intrinsically biodegradable.

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### 13. DISPOSAL CONSIDERATIONS

Waste disposal : Dispose in accordance with local regulations. See DPR n.691 del 23/08/82 (COOU) and  
Environmental Code (D.Lgs. n. 152 del 3/4/2006).

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### 14. TRANSPORT INFORMATION

Not concerned by the transport regulations below.

Road (ADR) / Rail (RID) :

Class : Not restricted for transport.

Transport by barge (ADNR) :

Marine (IMO-IMDG) :

Air (ICAO/IATA) :

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### 15. REGULATORY INFORMATION

Not applicable

Risk phrases : None

Safety phrases : None

EU directives : Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).

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National regulations (Italy) :

DPR n.547/1955 Regulation to prevent working accident.  
DPR n.303/1956 General regulations for job health.  
DPR 336/1994 Regulation on new lists of industry and agriculture professional illness.  
elimination.  
D.Lgs. 626/94, 242/96 e 25/02 "Putting into practice of Directives 89/32/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE to improve worker health and safety on working place.  
Legislative Decree March 14, 2003 n.65 - Putting into practice of the Directives 1999/45/EC and 2001/60/EC concerning dangerous preparations classification, packing and labelling.  
Legislative Decree 152/2006 (03 /04/2006) Provisione concerning environment.  
Legislative Decree 81/2008 : Putting into practice of art.1 law 3 August 2007 n. 123 in matter health and safety tutelage on working place.

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### 16. OTHER INFORMATION

This sheet is in compliance with the standards defined by Annex II of Regulation EC 1907/2006 - REACH.

Explanations of R-phrases in section 2 :

R-38 Irritating to skin.  
R-41 Risk of serious damage to eye.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision date: 2010-10-01

\* Information revised since the previous version of the SDS :

SDS No. : UNIGREASEEP2

Safety Data Sheet status : Approved.

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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.