

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

## SECTION 1: Identification of Product and Company

### 1.1. Product identifier

Product name : LUBRAX LITHPLUS EP 2  
Product code : 1002257  
Recommended use : Lubricant grease

### 1.2. Company identification

Name of company : Petrobras Distribuidora S.A.  
Address : Rua Correia Vasques  
Rio de Janeiro  
Brasil  
20.211-140

SAC : 4090 1337 (capitais ou regiões metropolitanas) ou 0800 770 1337  
(demais regiões)

Emergency telephone number : 0800 0244433

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to GHS-BR (ABNT NBR 14725)

Acute toxicity (oral), Category 4

Serious eye damage/eye irritation, Category 2B

Hazardous to the aquatic environment – Acute Hazard, Category 3

### 2.2. Label elements

#### GHS-BR labelling

Hazard pictograms (GHS-BR) :



GHS07

Signal word (GHS-BR) : Warning

Hazard statements (GHS-BR) : H302 - Harmful if swallowed.  
H320 - Causes eye irritation  
H402 - Harmful to aquatic life

Precautionary statements (GHS-BR)

Prevenção : P264 - Wash the exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

Resposta a Emergência : P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 - Rinse mouth.

### 2.3. Other hazards not contributing to the classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to GHS-BR (ABNT NBR 14725)
Lithium hydroxide	1310-65-2	0,1 - 5	Not classified
Dodecanedioic acid	693-23-2	1 - 4	Not classified

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Seek medical attention immediately.  
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
 First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.  
 First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 First-aid measures after ingestion : If swallowed, seek medical advice immediately and show this container or label.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.  
 Symptoms/effects after skin contact : irritation (itching, redness, blistering).  
 Symptoms/effects after eye contact : Causes eye irritation. stinging. redness, itching, tears.

**Product: LUBRAX LITHPLUS EP 2**

SDS ID: 1002257

Revision date: 09/08/2018

Symptoms/effects after ingestion : Harmful if swallowed. Ingestion may cause nausea and vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire and/or explosion do not breathe fumes.

Explosion hazard : No direct explosion hazard.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

Other information : In case of fire, corrosive and harmful gases come free.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

## 6.1.2. For emergency responders

- Protective equipment : Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Equip cleanup crew with proper protection.
- Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Do not allow to enter drains or water courses. Harmful to aquatic life. Do not allow product to spread into the environment. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Absorb spillage to prevent material damage. Clean contaminated surfaces with an excess of water. Take up liquid spill into absorbent material.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Do not eat, drink or smoke when using this product. Ensure good ventilation of the work station. Wear personal protective equipment. Keep only in original container. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Always wash hands after handling the product. Remove contaminated clothes. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Store locked up. Store in tightly closed, leak-proof containers.
- Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Keep cool.
- Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

### 8.3. Personal protective equipment

Personal protective equipment	: Wear recommended personal protective equipment.
Hand protection	: Protective gloves.
Eye protection	: Wear closed safety glasses.
Skin and body protection	: Wear impervious rubber safety shoes.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Pasty.
Colour	: red
Odour	: characteristic
Odour threshold	: Not available
pH	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: > 220 °C
Relative evaporation rate (butylacetate=1)	: Not available
Flammability (solid, gas)	: Not available
Explosive limits	: Not available
Vapour pressure	: Not available
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Solubility	: Not available

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

Log Kow : Not available  
 Auto-ignition temperature : Not available  
 Decomposition temperature : Not available  
 Kinematic Viscosity (40° C) :  
 Viscosity, dynamic : Not available

## 9.2. Other information

Not available

## SECTION 10: Stability and reactivity

Chemical stability : Stable under normal conditions of use  
 Conditions to avoid : Extremely high or low temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Hazardous decomposition products : On exposure to high temperature, may decompose, releasing corrosive gases  
 Incompatible materials : Strong oxidizing agents  
 Possibility of hazardous reactions : None under normal use  
 Reactivity : The product is non-reactive under normal conditions of use, storage and transport

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Product information

Acute toxicity (oral) : Oral: Harmful if swallowed.  
 Acute toxicity (dermal) : Not available  
 Acute toxicity (inhalation) : Not available

LD50 oral rat	> 5000 mg/kg
ATE BR (oral)	500 mg/kg bodyweight

Skin corrosion/irritation : Not available  
 Serious eye damage/irritation : Causes eye irritation.  
 Respiratory or skin sensitisation : Not available  
 Germ cell mutagenicity : Not available  
 Carcinogenicity : Not available  
 Reproductive toxicity : Not available  
 STOT-single exposure : Not available  
 STOT-repeated exposure : Not available  
 Aspiration hazard : Not available

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

## 11.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
- Symptoms/effects after skin contact : irritation (itching, redness, blistering).
- Symptoms/effects after eye contact : Causes eye irritation. stinging. redness, itching, tears.
- Symptoms/effects after ingestion : Harmful if swallowed. Ingestion may cause nausea and vomiting.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Product information

- Acute aquatic toxicity : Harmful to aquatic life.
- Chronic aquatic toxicity : Not available

### 12.2. Persistence and degradability

Product information	
Persistence and degradability	Biodegradable in water.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

- Waste treatment methods : Must follow special treatment according to local regulation.
- Sewage disposal recommendations : Disposal must be done according to official regulations.
- Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
- Additional information : Do not re-use empty containers.

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

## SECTION 14: Transport information

### 14.1 National and international Regulations

Not classified as dangerous for transport in the different modes, but may be harmful in the event of an accident. For further information, please consult Section 2 in this MSDS.

#### Overland transport

Resolução ANTT nº 5232, de 14 de dezembro de 2016 - Aprova as Instruções Complementares ao Regulamento Terrestre do Transporte de Produtos Perigosos, e dá outras providências.

#### Transport by sea

Direction of Ports and Coasts (Transport in Brazilian waters)

NORMAM - Maritime Authority Standards

NORMAM 01 / DPC: Employed boats in Navigation Offshore

NORMAM 02 / DPC: Employed boats in Inland Navigation

NORMAM 05 / DPC: Material Approval Standards of Maritime Authority

IMO - "International Maritime Organization" (Organização Marítima Internacional)

International Maritime Dangerous Goods Code (IMDG Code).

#### Air transport

IATA - "International Air Transport Association" (Associação Internacional de Transporte Aéreo)

ANAC - Resolution nº 129/ANAC of December 8, 2009

RBAC nº 175 (Brazilian Regulation of Civil Aviation) - Transport of hazardous articles in civil aircraft

IS N° 175-001 - INSTRUÇÃO SUPLEMENTAR - IS

International Civil Aviation Organization - Doc 9284-NA/905

Dangerous Goods Regulation (DGR).

### 14.2 Other information

No additional information available

Product: LUBRAX LITHPLUS EP 2

SDS ID: 1002257

Revision date: 09/08/2018

## SECTION 15: Regulatory information

Brazil Local Regulations

: Norma ABNT NBR 14725.

Decreto Federal nº 2.657, de 3 de julho de 1998 - Promulga a Convenção nº 170 da OIT, relativa à Segurança na Utilização de Produtos Químicos no Trabalho, assinada em Genebra, em 25 de junho de 1990.

Portaria nº 229, de 24 de maio de 2011 - Altera a Norma Regulamentadora nº 27

Res. ANTT nº 5232, de 14 de dezembro de 2016 - Aprova as Instruções Complementares ao Regulamento Terrestre do Transporte de Produtos Perigosos, e dá outras providências.

## SECTION 16: Other information

No additional information available

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*