

Product: LUBRAX GEAR PAO 220

SDS ID: 1010295

Revision date: 09/08/2018

## SECTION 1: Identification of Product and Company

### 1.1. Product identifier

Product name : LUBRAX GEAR PAO 220  
Product code : 1010295  
Recommended use : Lubricant for industrial gears

### 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)

Skin corrosion/irritation, Category 3  
Serious eye damage/eye irritation, Category 2B  
Skin sensitisation, Category 1

### 2.2. Label elements

#### GHS-BR labelling

Hazard pictograms (GHS-BR) :



GHS07

Signal word (GHS-BR) :

Warning

Hazard statements (GHS-BR) :

H316 - Causes mild skin irritation  
H317 - May cause an allergic skin reaction.  
H320 - Causes eye irritation

Precautionary statements (GHS-BR)

Prevenção

P261 - Avoid breathing mist and vapours.  
P264 - Wash the exposed areas thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the

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Resposta a Emergência : workplace.  
 : P302+P352 - IF ON SKIN: Wash with plenty of water and soap.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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)
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	68037-01-4	70 - 95	Not classified
Segredo industrial	Industrial secret	5 - 15	Skin Irrit. 3, H316 Eye Irrit. 2B, H320 Skin Sens. 1, H317 Aquatic Chronic 3, H412

## SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : People with over sensibility problems are not allowed to work or be exposed to the product.

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. Be careful, the product may remain trapped under clothing, footwear or a wrist-watch. If skin irritation or rash occurs: Get medical advice/attention.

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 : Do NOT induce vomiting. Rinse mouth out with water.

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#### 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 : Causes mild skin irritation. Itching. Cracking of the skin. Prolonged or repeated contact may cause skin to become dry. irritation (itching, redness, blistering).

Symptoms/effects after eye contact : May cause eye irritation. Causes eye irritation. stinging. redness, itching, tears.

Symptoms/effects after ingestion : None under normal conditions.

#### 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. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

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## 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.

## 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

Avoid release to 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 : Clean contaminated surfaces with an excess of water. Absorb spilled material with sand or earth.

## 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 get in eyes, on skin, or on clothing. Contaminated work clothing should not be allowed out of the workplace. 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. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

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

Technical measures : Store locked up.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

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## 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.

## 8.3. Personal protective equipment

Personal protective equipment : Wear recommended personal protective equipment.

Hand protection : Nitrile rubber gloves.

Eye protection : Wear closed safety glasses.

Skin and body protection : Long sleeved protective clothing. Chemical resistant apron. 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 : Clear, brown liquid.

Colour : Dark brown

Odour : Typical of lubricant oil

Odour threshold : Not available

pH : Not available

Melting point : -54 °C

Freezing point : Not available

Boiling point : Not available

Flash point : 260 °C (PM)

Relative evaporation rate (butylacetate=1) : Not available

Flammability (solid, gas) : Not available

Explosive limits : Not available

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Vapour pressure	: Not available
Relative vapour density at 20 °C	: Not available
Relative density	: 0,85 (20/4 °C)
Solubility	: Not available
Log Kow	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Kinematic Viscosity (40 °C)	: 220 cSt
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 acids, Strong oxidizing agents, Strong bases
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)	: Not available
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available
Skin corrosion/irritation	: Causes mild skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not available

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Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available

## 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	: Causes mild skin irritation. Itching. Cracking of the skin. Prolonged or repeated contact may cause skin to become dry. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: May cause eye irritation. Causes eye irritation. stinging. redness, itching, tears.
Symptoms/effects after ingestion	: None under normal conditions.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Product information

Acute aquatic toxicity	: Not available
Chronic aquatic toxicity	: Not available

### 12.2. Persistence and degradability

No additional information available

### 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.

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Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

## 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).

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## Air transport

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

ANAC - Resolution n° 129/ANAC of December 8, 2009

RBAC n° 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

## SECTION 15: Regulatory information

### Brazil Local Regulations

: Norma ABNT NBR 14725.

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

Portaria n° 229, de 24 de maio de 2011 - Altera a Norma Regulamentadora n° 27

Res. ANTT n° 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*