

Product: MARBRAX CCD 450

SDS ID: 1003821

Revision date: 14/08/2018

## SECTION 1: Identification of Product and Company

### 1.1. Product identifier

Product name : MARBRAX CCD 450  
Product code : 1003821  
Recommended use : Lubricant oil.

### 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)

Reproductive toxicity, Category 1B

### 2.2. Label elements

#### GHS-BR labelling

Hazard pictograms (GHS-BR) :



GHS08

Signal word (GHS-BR) : Danger  
Hazard statements (GHS-BR) : H360 - May damage fertility or the unborn child.  
Precautionary statements (GHS-BR)  
Prevenção : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing and eye protection.  
Resposta a Emergência : P308+P313 - IF exposed or concerned: Get medical advice/attention.

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Disposição : P501 - Dispose of contents and container in accordance with local regulations.

### 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)
Lubricating base oil	Industrial secret	70 - 80	Not classified
Additive package	Industrial secret	10 - 15	Not classified
Lubricating base oil	Industrial secret	5 - 10	Not classified
base oil	Indeterminado	0,1 - 2	Not classified
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	68457-79-4	0,1 - 1	Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Fenol, dodecil-, ramificado	74499-35-7	< 1	Acute Tox. 5 (Dermal), H313 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Poly(oxy-1,2-ethanediyl)	9036-19-5	< 1	Not classified
Antifoam agent	Industrial secret	< 0,1	Not classified

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- 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 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth out with water.

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

- Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
- Symptoms/effects after skin contact : None under normal conditions.
- Symptoms/effects after eye contact : None under normal conditions.
- Symptoms/effects after ingestion : None under normal conditions.
- Chronic symptoms : May damage fertility. May damage the unborn child.

### 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 : No fire hazard.
- 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 : Wear recommended personal protective equipment.

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## SECTION 6: Accidental release measures

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

General measures : 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.

#### 6.1.2. For emergency responders

Protective equipment : 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. 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 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 : Obtain special instructions before use. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Wear personal protective equipment. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures : 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Exposure limit for mists/aerosols that may form while using this product:

Name	TWA - (ACGIH, 2018)
Mineral oil, excluding working fluids - poorly and mildly refined	5 ppm

### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

### 8.3. Personal protective equipment

Personal protective equipment : Wear recommended personal protective equipment.

Hand protection : Protective gloves.

Eye protection : Wear security glasses which protect from splashes.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : No respiratory protection needed under normal use conditions.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Appearance : Clear and Bright Liquid.

Colour : Yellowish to brown

Odour : Typical of lubricant oil

Odour threshold : Not available

pH : Not available

Melting point : Not available

Freezing point : Not available

Boiling point : Not available

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Flash point	: 238 °C (COC)
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	: 0,92 (20/4 °C)
Solubility	: Not available
Log Kow	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Kinematic Viscosity (40 °C)	: 134 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	: No hazardous decomposition products known at room temperature
Incompatible materials	: Consult supplier(s) of these materials for specific recommendations
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

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Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available
Skin corrosion/irritation	: Not available
Serious eye damage/irritation	: Not available
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available
Aspiration hazard	: Not available

<b>Ingredients information: Lubricating base oil</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

<b>Ingredients information: Lubricating base oil</b>	
LD50 oral rat	> 25000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

<b>Ingredients information: Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (68457-79-4)</b>	
LD50 oral rat	= 3600 mg/kg
LD50 dermal rabbit	= 2000 mg/kg

<b>Ingredients information: Fenol, dodecil-, ramificado (74499-35-7)</b>	
LD50 dermal rabbit	> 2000 mg/kg

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

Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.
Chronic symptoms	: May damage fertility. May damage the unborn child.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Product information

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

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<b>Ingredients information:</b> Lubricating base oil	
LC50 other aquatic organisms 1	> 1000 mg/l
EC50 Daphnia 1	> 1000 mg/l

<b>Ingredients information:</b> Lubricating base oil	
EC50 Daphnia 1	> 1000 mg/l

<b>Ingredients information:</b> Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (68457-79-4)	
LC50 fish 1	= 4,5 mg/l
EC50 Daphnia 1	= 23 mg/l

## 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.
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.

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## 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).

*NORMAM 02 / DPC: Employed boats in Inland Navigation, NORMAM 05 / DPC: Material Approval Standards of Maritime Authority, International Maritime Organization, IMO - "International Maritime Organization" (Organização Marítima Internacional)*

## 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

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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*