

Product: LUBRAX FEROCES

SDS ID: 1015858

Revision date: 03/02/2023

SECTION 1: Identification of Product and Company**1.1. Product identifier**

Product name : LUBRAX FEROCES
Product code : 1015858
Recommended use : Lubricant oil.

1.2. Company identification

Name of company : Vibra Energia S.A.
Address : Rua Correia Vasques, 250
Rio de Janeiro
Brasil
20.211-140

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

Emergency telephone number : 0800 024 44 33 - CAE (Central de apoio a emergências), para vazamentos, derramamentos e outros acidentes que necessitem de suporte emergencial.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to GHS BR (ABNT NBR 14725)

Serious eye damage/eye irritation, Category 2

2.2. Label elements**GHS BR labelling**

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Warning

Hazard statements (GHS BR)

: H319 - Causes serious eye irritation.

Precautionary statements (GHS BR)

Prevention

: P264 - Wash the exposed areas thoroughly after handling.
P280 - Wear protective gloves, protective clothing and eye protection.

Resposta a Emergência

: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

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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) |
|---|-----------------------|---------|--|
| Lubricant base oil | - | 50 - 60 | Not classified |
| Lubricating base oil | - | 20 - 30 | Acute Tox. 5 (Dermal), H313 |
| Viscometric modifier agent | - | 10 - 15 | Not classified |
| Mineral oil | CAS-No.: Confidencial | 3 - 10 | Asp. Tox. 1, H304 |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | CAS-No.: 68649-42-3 | 0,1 - 2 | Acute Tox. 5 (Oral), H303 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| Calcium long-chain alkylphenate sulfide | CAS-No.: Confidencial | 0,1 - 2 | Acute Tox. 5 (Dermal), H313 |
| alkaryl amine | CAS-No.: Confidencial | 0,1 - 1 | Aquatic Chronic 4, H413 |
| Long-chain olefin sulphides | CAS-No.: Confidencial | 0,1 - 1 | Aquatic Chronic 4, H413 |
| Viscometric modifier agent | - | 0,1 - 1 | Not classified |
| Additive package | - | < 0,1 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| Phenol, dodecyl-, branched | CAS-No.: 74499-35-7 | < 0,1 | Acute Tox. 5 (Dermal), H313 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Comments

: The mineral oils present in the product are highly refined and contain <3% DMSO extract (IP 346).

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : If you feel unwell, seek medical advice. |
| 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. |

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, foam for use in hydrocarbons, carbon dioxide (CO ₂). |
| 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. |

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

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 : 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 : 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 : Keep in a cool, well-ventilated place away from heat.
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 | Mineral oil, excluding metal working fluids - pure, highly and severely refined |
| TWA - (ACGIH, 2021) | 5 mg/m ³ |

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

Personal protective equipment symbol(s):

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|--|------------------|
| Physical state | : Liquid |
| Appearance | : Clear liquid. |
| Colour | : Colourless |
| Odour | : Light |
| Odour threshold | : Not available |
| pH | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flash point | : 228 °C (COC) |
| Relative evaporation rate (butylacetate=1) | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not available |
| Vapour pressure | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Relative density | : 0,85 (20/4 °C) |
| Solubility | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| Kinematic Viscosity (40 °C) | : 143 cSt |
| Viscosity, dynamic | : Not available |

9.2. Other information

Not available

SECTION 10: Stability and reactivity

Chemical stability : Stable under normal conditions of use.

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| | |
|------------------------------------|--|
| 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. |
| Handling temperature | : No additional information available |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-----------------|
| Acute toxicity (oral) | : Not available |
| Acute toxicity (dermal) | : Not available |
| Acute toxicity (inhalation) | : Not available |

| Additive package | |
|--|--------------------------|
| ATE BR (oral) | 500 mg/kg bodyweight |
| Lubricant base oil | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 5,53 mg/m ³ |
| Lubricating base oil | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 5000 mg/m ³ |
| ATE BR (dermal) | 2500 mg/kg bodyweight |
| Mineral oil (Confidential) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat | > 5000 mg/m ³ |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) | |
| LD50 oral rat | 2230 - 3100 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| ATE BR (oral) | 2230 mg/kg bodyweight |

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| Calcium long-chain alkylphenate sulfide (Confidential) | |
|--|-----------------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| ATE BR (dermal) | 2500 mg/kg bodyweight |

| Phenol, dodecyl-, branched (74499-35-7) | |
|---|-----------------------|
| LD50 dermal rabbit | > 2000 mg/kg |
| ATE BR (dermal) | 2500 mg/kg bodyweight |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not available |
| Serious eye damage/irritation | : Causes serious 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 |
| Other information | : This mixture does not contain carcinogenic ingredients. The mineral oils present in the product are highly refined and contain <3% DMSO extract (IP 346). |

| LUBRAX FEROCES | |
|-----------------------------|------------------------|
| Kinematic Viscosity (40 °C) | 143 mm ² /s |

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. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|-----------------|
| Hazardous to the aquatic environment, short-term (acute) | : Not available |
| Hazardous to the aquatic environment, long-term (chronic) | : Not available |

| Mineral oil (Confidential) | |
|----------------------------|------------|
| LC50 - Fish [1] | > 100 mg/l |

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| | |
|-------------------------------------|--------------|
| Mineral oil (Confidencial) | |
| EC50 - Crustacea [1] | > 10000 mg/l |
| NOEC chronic crustacea | > 10 mg/l |
| alkaryl amine (Confidencial) | |
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 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

| | |
|--|--|
| Regional legislation (waste) | : Law No. 12.305 on the National Policy on Solid Waste Management, 02 August 2010. |
| 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.

14.2 Other information

No additional information available

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SECTION 15: Regulatory information

15.1. National regulations

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

Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials

Resolution no. 5947, of 01 June 2021, updates the regulation for road transport of dangerous goods and approves its complementary instructions, and other measures.

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.