

Product: LUBRAX BETUMEN FLD 500

SDS ID: 1000735

Revision date: 27/05/2025

## SECTION 1: Identification

### 1.1. GHS Product identifier

Product form	: Mixture
Product name	: LUBRAX BETUMEN FLD 500
Product code	: 1000735
Product group	: Produtos comerciais

### 1.2. Other means of identification

No additional information available

### 1.3. Recommended use of the chemical and restrictions on use

Recommended use	: Asfaltic base grase for open gears and steel cables
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### 1.4. Supplier's details

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

SAC	: 4090 1337 ou 0800 770 1337 (capitals, metropolitan regions or other regions)
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Emergency telephone number	: 0800 024 44 33
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### 1.5. Emergency phone number

Emergency number	: 0800 024 44 33 CAE (Emergency Support Center), for leaks, spills and other accidents that require emergency support.
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**Product: LUBRAX BETUMEN FLD 500****SDS ID: 1000735****Revision date: 27/05/2025****SECTION 2: Hazard identification****2.1. Classification of the substance or mixture****Classification according to GHS BR (ABNT NBR 14725: 2023)**

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

Germ cell mutagenicity, Category 2

Carcinogenicity, Category 1B

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Specific target organ toxicity – Repeated exposure, Category 2

Hazardous to the aquatic environment - Chronic Hazard, Category 3

**2.2. GHS Label elements, including precautionary statements****GHS BR labelling**

Hazard pictograms (GHS BR)

:



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H341 - Suspected of causing genetic defects.  
H350 - May cause cancer.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS BR)

Prevention

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust, fume, gas, mist, vapours or spray.  
P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

Response

: P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Storage : P308+P313 - IF exposed or concerned: Get medical advice or attention.  
P312 - Call a POISON CENTER or a doctor if you feel unwell.  
P314 - Get medical advice or attention as appropriate.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice or attention.  
P337+P313 - If eye irritation persists: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
: P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
Disposal : P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

## 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	GHS Product identifier	%	Classification according to GHS BR (ABNT NBR 14725: 2023)
Asphalt	CAS-No.: 8052-42-4	≥ 80	Not classified
1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate	CAS-No.: 79-01-6	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H336 STOT RE 2, H373 Aquatic Acute 3, H402

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

**Product: LUBRAX BETUMEN FLD 500****SDS ID: 1000735****Revision date: 27/05/2025****SECTION 4: First-aid measures****4.1. Description of necessary first-aid measures**

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Immediately call a POISON CENTER/doctor.
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.
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.

**4.2. Most important symptoms and effects, acute and delayed**

Symptoms/effects	: May cause damage to organs through prolonged or repeated exposure. May cause severe burns. Causes serious eye irritation. May cause respiratory irritation.
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 skin irritation. irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Causes serious eye irritation. stinging. redness, itching, tears.
Symptoms/effects after ingestion	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic symptoms	: May cause cancer. May cause heritable genetic damage.

**4.3. Indication of any immediate medical attention and special treatment needed, if necessary**

Notes to physician	: Treat symptomatically
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**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

Suitable extinguishing media	: Water spray. earth, sand, dry chemical powder or foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

**5.2. Specific hazards arising from the chemical**

Fire hazard	: In case of fire and/or explosion do not breathe fumes.
Explosion hazard	: No direct explosion hazard.

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### 5.3. Special protective actions for fire-fighters

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|--------------------------------|--|
| 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

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|------------------|---|
| 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. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

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|----------------------|---|
| 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

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|----------------------|--|
| Protective equipment | : Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Corrosionproof suit. 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 with long lasting effects. Do not allow product to spread into the environment.

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

- |                         |   |
|-------------------------|---|
| For containment         | : Using a clean shovel, put the material in a dry container and cover without compressing it. Stop leak without risks if possible.  |
| Methods for cleaning up | : Clean up immediately by sweeping or vacuum. Clear up rapidly by scoop or vacuum. Clean contaminated surfaces with an excess of water. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. |

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## 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. Ensure good ventilation of the work station. 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

<b>1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)</b>	
<b>Brazil - Occupational Exposure Limits</b>	
Local name	Tricloroetileno
OEL TWA	420 mg/m <sup>3</sup>
	78 ppm
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres
<b>Brazil - Biological limit values</b>	
Local name	Tricloroetileno

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1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
BEI	15 mg/l Parâmetro: Ácido tricloroacético - Meio: Urina - Momento de amostragem: Final do último dia de jornada da semana - Observações: Não específico (pode ser encontrado por exposições a outras substâncias). 0,5 mg/l Parâmetro: Tricloroetanol - Meio: Sangue - Momento de amostragem: Final do último dia de jornada da semana - Observações: Não específico (pode ser encontrado por exposições a outras substâncias). O método analítico deve ser realizado sem hidrólise para este IBE/EE.
Remark	Interpretação: IBE/EE - Indicadores Biológicos de Exposição Excessiva.
Regulatory reference	NR 7 - PCMSO
USA - ACGIH - Occupational Exposure Limits	
Local name	Trichloroethylene
ACGIH OEL TWA	10 ppm
ACGIH OEL STEL	25 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; cognitive decrements; renal toxicity. Notations: A2 (Suspected Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Trichloroethylene
BEI	15 mg/l Parameter: Trichloroacetic acid - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns 0,5 mg/l Parameter: Trichloroethanol (without hydrolysis) - Medium: blood - Sampling time: End of shift at end of workweek - Notations: Ns Parameter: Trichloroethylene - Medium: blood - Sampling time: End of shift at end of workweek - Notations: Sq Parameter: Trichloroethylene - Medium: end-exhaled air - Sampling time: End of shift at end of workweek - Notations: Sq
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Trichloroethylene
OSHA PEL TWA	100 ppm
OSHA PEL C	200 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	300 ppm 5 mins. in any 2 hrs.

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<b>1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)</b>	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2

<b>Asphalt (8052-42-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen) fumes, as benzene-soluble aerosol
ACGIH OEL TWA	0,5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: A4 (Not classifiable as a Human Carcinogen); BEIP
Regulatory reference	ACGIH 2024

## 8.2. Appropriate engineering controls

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

## 8.3. Individual protection measures

### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves made of PVC

<b>Eye protection:</b>
Wear closed safety glasses

<b>Skin and body protection:</b>
Wear impervious rubber safety shoes

<b>Respiratory protection:</b>
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### Personal protective equipment symbol(s):





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**SECTION 9: Physical and chemical properties****9.1. Basic physical and chemical properties**

Physical state	: Solid
Appearance	: Semi-solid. Black.
Colour	: Black
Odour	: Not available
Odour threshold	: Not available
pH	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable
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 applicable
Relative density	: Not available
Density	: Not available
Solubility	: Water:
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
Kinematic Viscosity (40° C)	: = 400 cSt
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

**9.2. Data relevant with regard to physical hazard classes**

No additional information available

**9.3. Further safety characteristics**

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

LUBRAX BETUMEN FLD 500	
LD50 oral rat	> 5000 mg/kg

1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
LC50 Inhalation - Rat [ppm]	12500 ppm Animal: rat, Animal sex: male
ATE BR (gases)	12500 ppmv/4h

Asphalt (8052-42-4)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 0,0944 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.

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<b>1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	1000 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: not determinable
NOAEL (chronic, oral, animal/female, 2 years)	1000 mg/kg bodyweight Animal: mouse, Animal sex: female, Remarks on results: not determinable

Reproductive toxicity : Not available  
STOT-single exposure : May cause respiratory irritation.

<b>1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)</b>	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

<b>1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)</b>	
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Animal sex: male
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

<b>Asphalt (8052-42-4)</b>	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0,0207 mg/l air Animal: rat, Guideline: other:OECD 451

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).

<b>LUBRAX BETUMEN FLD 500</b>	
Kinematic Viscosity (40 °C)	= 400 mm <sup>2</sup> /s

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

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. May cause severe burns. Causes serious eye irritation. May cause respiratory irritation.

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 skin irritation. irritation (itching, redness, blistering).

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

Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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Chronic symptoms : May cause cancer. May cause heritable genetic damage.

## 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) : Harmful to aquatic life with long lasting effects.

1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
LC50 - Fish [1]	28,3 mg/l Test organisms (species): Jordanella floridae
EC50 72h - Algae [1]	36,5 mg/l Test organisms (species): Chlamydomonas reinhardtii
NOEC chronic fish	5,76 mg/l Test organisms (species): Jordanella floridae Duration: '10 d'

### 12.2. Persistence and degradability

LUBRAX BETUMEN FLD 500	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Hazardous to the ozone layer : Not available

## SECTION 13: Disposal considerations

Regional waste regulation	: 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	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with IMDG / IATA / ANTT

**Product: LUBRAX BETUMEN FLD 500****SDS ID: 1000735****Revision date: 27/05/2025****14.1 National and international Regulations****Overland transport**Proper Shipping Name (ANTT) : **Not applicable**

Dangerous for the environment : No

**Transport by sea**

UN-No. (IMDG) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Class (IMDG) : Not applicable

Subsidiary hazard (IMDG) : Not applicable

Packing group (IMDG) : Not applicable

EmS-No. (Fire) : Not applicable

EmS-No. (Spillage) : Not applicable

Special provisions (IMDG) : Not applicable

**Air transport**

UN-No. (IATA) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Class (IATA) : Not applicable

Subsidiary hazards (IATA) : Not applicable

Packing group (IATA) : Not applicable

Special provisions (IATA) : Not applicable

**14.2 Other informations**

No additional information available

**SECTION 15: Regulatory information****15.1. National regulations**

Brazil Local Regulations : Norma ABNT NBR 14725.

Federal Decree no. 10.088, of 5 November 2019 - Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil.

Ministerial Order no. 2.770, of 5 September 2022 - Approves the new wording of Regulatory Standard No. 26

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

Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.

**SECTION 16: Other information**

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No additional information available

Safety Data Sheet (SDS), Brazil

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.