

Product: LUBRAX BETUMEN FLD 500**SDS ID: 1000735****Revision date: 24/08/2023****SECTION 1: Identification of Product and Company****1.1. Product identifier**

Product name : LUBRAX BETUMEN FLD 500
Product code : 1000735
Recommended use : Asphaltic base grease for open gears and steel cables

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)**

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. Label elements**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.

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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 mist and vapours.
P261 - Avoid breathing mist and vapours.
P264 - Wash the exposed areas 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 and eye protection.

Resposta a Emergência

: P302+P352 - IF ON SKIN: Wash with plenty of water and soap.
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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment: In the event of spillage contact the customer attendance service.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

Storage

: P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposição

P405 - Store locked up.
: 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

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3.2. Mixtures

Name	Product identifier	%	Classification according to GHS BR (ABNT NBR 14725)
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 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H336 Aquatic Chronic 3, H412

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

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 : 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, 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.

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

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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. earth, sand, dry chemical powder or foam.
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.

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.

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.

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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 material for containment and cleaning up

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| 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. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| 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

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| 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. |

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
Brazil - Occupational Exposure Limits	
Local name	Tricloroetileno
OEL TWA	420 mg/m ³
OEL TWA [ppm]	78 ppm
Regulatory reference	Norma Regulamentadora N° 15 - Atividades e Operações Insalubres
Brazil - Biological limit values	
Local name	Tricloroetileno
BLV	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). 1 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 [ppm]	10 ppm
ACGIH OEL STEL [ppm]	25 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; cognitive decrements; renal toxicity. Notations: A2 (Suspected Human Carcinogen); BEI
Regulatory reference	ACGIH 2023
USA - ACGIH - Biological Exposure Indices	
Local name	TRICHLOROETHYLENE

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1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
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 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Trichloroethylene
OSHA PEL TWA [2]	100 ppm
OSHA PEL C [ppm]	200 ppm
Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	300 ppm 5 mins. in any 2 hrs.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-2

Asphalt (8052-42-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Asphalt (Bitumen) fumes, as benzene-soluble aerosol
ACGIH OEL TWA	0,5 mg/m ³ (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: A4 (Not classifiable as a Human Carcinogen); BEIP
Regulatory reference	ACGIH 2023

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

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.

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Hand protection:

Protective gloves made of PVC

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

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on 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 available
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: Not available

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Vapour pressure	: Not available
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Solubility	: Water:
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Kinematic Viscosity (40 °C)	: = 400 cSt
Viscosity, dynamic	: Not available

9.2. Other information

No additional information 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.
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

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LD50 oral rat	> 5000 mg/kg
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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
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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.

1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
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.

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

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

1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched and linear, diacetate (79-01-6)	
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Animal sex: male

Asphalt (8052-42-4)	
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).

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Kinematic Viscosity (40 °C)	= 400 mm ² /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.
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): <i>Jordanella floridae</i>
EC50 72h - Algae [1]	36,5 mg/l Test organisms (species): <i>Chlamydomonas reinhardtii</i>
NOEC chronic fish	5,76 mg/l Test organisms (species): <i>Jordanella floridae</i> Duration: '10 d'

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

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12.5. Other adverse effects

Hazardous to the ozone layer : Not 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	: 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

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

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. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.
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SECTION 16: Other information

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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.