

Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Product name : LUBRAX BETUMEN FLD 250

Product code : 1000732

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

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)

Emergency telephone number : 0800 024 44 33

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.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725: 2023)

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



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR)





Signal word (GHS BR) : Danger

Hazard statements (GHS BR) : 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. 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 : 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 or attention.

P312 - Call a POISON CENTER or a doctor if you feel unwell. P314 - Get medical advice or attention as appropriate.

P337+P313 - If eye irritation persists: Get medical advice or attention.

: 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

Storage



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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).

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.

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.

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 : irritation (itching, redness, blistering).



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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

Symptoms/effects after ingestion : None under normal conditions.

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

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.

5.3. Special protective actions for fire-fighters

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.



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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. 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.

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.



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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 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.	
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/m³ (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.



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

Hand protection:

Protective gloves

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. Basic physical and chemical properties

Physical state : Solid

Appearance : Semi-solid. Black.

Colour : Black

Odour : characteristic Odour threshold : Not available pН : Not available Melting point : Not available Freezing point : Not available **Boiling point** : Not available Flash point : Not applicable : Not available Relative evaporation rate

(butylacetate=1)

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:



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

Partition coefficient n-octanol/water : Not available

(Log Kow)

: Not applicable Auto-ignition temperature : Not available Decomposition temperature Kinematic Viscosity (40°C) = 200 cSt: Not available Particle size Particle size distribution : Not available : Not available Particle shape 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.

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 available
Acute toxicity (dermal) : Not available
Acute toxicity (inhalation) : Not available

LUBRAX BETUMEN FLD 250	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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 : Not available

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



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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).

LUBRAX BETUMEN FLD 250	
Kinematic Viscosity (40°C)	= 200 mm²/s

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

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure.

Causes serious eye irritation. May cause respiratory irritation.

: Causes serious eye irritation. stinging. redness, itching, tears.

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.

: irritation (itching, redness, blistering).

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

: None under normal conditions.

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

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, : Not available

short-term (acute)

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 250	
Persistence and degradability	Rapidly degradable



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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 : Comply with applicable regulations for solid waste disposal. Disposal

recommendations 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

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



Product: LUBRAX BETUMEN FLD 250

SDS ID: 1000732 Revision date: 27/05/2025

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

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.