

Product: LUBRAX GL 5 LS 90

SDS ID: 1010366 Revision date: 24/05/2025

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Product name : LUBRAX GL 5 LS 90

Product code : 1010366

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 : Lubricant oil.

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 2

Skin sensitisation, Category 1

Hazardous to the aquatic environment - Acute Hazard, Category 2 Hazardous to the aquatic environment - Chronic Hazard, Category 3



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2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR)

Signal word (GHS BR) : Warning

Hazard statements (GHS BR) : H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS BR)

Prevention : P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.

> P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the

workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face

protection and hearing protection.

: P302+P352 - IF ON SKIN: Wash with plenty of water. Response

> P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P321 - Specific treatment (see supplemental first aid instruction on this

P333+P313 - If skin irritation or rash 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.

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



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3.2. Mixtures

Name	GHS Product identifier	%	Classification according to GHS BR (ABNT NBR 14725: 2023)
Reaction products of bis(4-methylpentan- 2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12- 14-alkyl (branched)	CAS-No.: Confidencial	1 - 2	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Alkylamine salt of alkyl phosphoric acid	CAS-No.: Confidencial	0,5 - 2	Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Alkenyl amine	CAS-No.: Confidencial	0,2 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 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).

The mineral oils present in the product are absent of Benzene, Toluene

and Xylene.

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : People with over sensibility problems are not allowed to work or be

exposed to the product.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing,

and wash immediately with plenty of water. If skin irritation or rash

occurs: Get medical advice/attention.

: In case of contact with eyes, rinse immediately with plenty of water First-aid measures after eye contact

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, acute and delayed

Symptoms/effects : May cause an allergic skin reaction.



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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 : Cracking of the skin. Prolonged or repeated contact may cause skin to

become dry.

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, if necessary

Notes to physician : Treat symptomatically

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. dry chemical powder, foam for use in hydrocarbons,

carbon dioxide (CO2).

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 : Wear recommended personal protective equipment.

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. 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.



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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. Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Harmful to aquatic life with long lasting effects. Do not allow product to spread into the environment. Do not allow to enter drains or water courses. Toxic to aquatic life. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials 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. 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 : Do not get in eyes, on skin, or on clothing. Contaminated work clothing

should not be allowed out of the workplace. Ensure good ventilation of the work station. Wear personal protective equipment. Keep only in original container. Do not handle until all safety precautions have been

read and understood.

Hygiene measures : Take off immediately all contaminated clothing and wash it before

reuse. 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



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

Name	Mineral oil, excluding working fluids - poorly and mildy refined
TWA - (ACGIH, 2024)	5 ppm

8.2. Appropriate engineering controls

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

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Nitrile rubber gloves

Eye protection:

Wear security glasses which protect from splashes

Skin and body protection:

Chemical resistant safety shoes. Long sleeved protective clothing. Chemical resistant apron

Respiratory protection:

No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s):









SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid

Appearance : Clear and Bright Liquid.

Colour : light brown

Odour : Typical of lubricant oil

Odour threshold : Not available



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: Not available pΗ Melting point : Not available : Not available Freezing point **Boiling point** : Not available Flash point : 224 °C (COC) Relative evaporation rate : Not available

(butylacetate=1)

: Not available **Flammability Explosive limits** : Not available : Not available Vapour pressure Relative vapour density at 20°C : Not available Relative density : 0,9 (20/4°C) Density : Not available Solubility : Not available Partition coefficient n-octanol/water : Not available

(Log Kow)

Auto-ignition temperature : Not available Decomposition temperature : Not available Kinematic Viscosity (40°C) : 189 cSt

Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle specific surface area : Not applicable

9.2. Data relevant with regard to physical hazard classes

No additional information available

9.3. Further safety characteristics

No additional information available

Hazardous decomposition products

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. : No hazardous decomposition products known at room temperature.

: Consult supplier(s) of these materials for specific recommendations. Incompatible materials

Possibility of hazardous reactions : None under normal use.

Reactivity : The product is non-reactive under normal conditions of use, storage and

transport.

: No additional information available Handling temperature



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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

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide

and amines, C12-14-alkyl (branched) (Confidencial)

ATE BR (oral) 500 mg/kg bodyweight

Alkenyl amine (Confidencial)

ATE BR (oral) 500 mg/kg bodyweight

Skin corrosion/irritation : Not available

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not available

Carcinogenicity : Not available

Reproductive toxicity : Not available STOT-single exposure : Not available

Alkenyl amine (Confidencial)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not available

Alkenyl amine (Confidencial)

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

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 GL 5 LS 90

Kinematic Viscosity (40°C) 189 mm²/s



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

Symptoms/effects : May cause an allergic skin reaction.

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 : Cracking of the skin. Prolonged or repeated contact may cause skin to

become dry.

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, : Toxic to aquatic life.

short-term (acute)

Hazardous to the aquatic environment, : Harmful to aquatic life with long lasting effects.

long-term (chronic)

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) (Confidencial)		
LC50 - Fish [1]	= 8,5 mg/l	
LC50 - Other aquatic organisms [1]	= 24 mg/l	
EC50 - Crustacea [1]	= 91,4 mg/l	
EC50 96h - Algae [1]	= 6,4 mg/l	
NOEC (chronic)	= 1,7 mg/l	
NOEC chronic fish	= 3,2 mg/l	
NOEC chronic crustacea	= 0,12 mg/l	
NOEC chronic algae	= 1,7 mg/l	

Alkenyl amine (Confidencial)		
LC50 - Fish [1]	= 0,9 mg/l	
EC50 - Crustacea [1]	= 0,011 mg/l	
EC50 72h - Algae [1]	> 0,1 mg/l	
NOEC chronic crustacea	= 0,013 mg/l	

12.2. Persistence and degradability

LUBRAX GL 5 LS 90	
Persistence and degradability	Rapidly degradable



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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 : Disposal must be done according to official regulations.

recommendations

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

: Not applicable Proper Shipping Name (ANTT)

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 : Not applicable Subsidiary hazards (IATA) : Not applicable Packing group (IATA)



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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

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.