

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : LUBRAX GOLD AX
Product code : 1024188
Product group : Produtos experimentais ou restritos

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Lubricating oil for axles and differentials

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)

Skin corrosion/irritation, Category 3

Skin sensitisation, Category 1

Hazardous to the aquatic environment - Acute Hazard, Category 1

Hazardous to the aquatic environment - Chronic Hazard, Category 3

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Warning

Hazard statements (GHS BR)

: H316 - Causes mild skin irritation
H317 - May cause an allergic skin reaction
H400 - Very 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.
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.

Response

: P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.

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)
Distillates (petroleum), hydrotreated light paraffinic	CAS-No.: 64742-55-8	2 - 10	Asp. Tox. 1, H304

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

Name	GHS Product identifier	%	Classification according to GHS BR (ABNT NBR 14725: 2023)
Carboxylic ester	CAS-No.: Confidencial	2 - 10	Skin Irrit. 3, H316
Olefin sulfide	CAS-No.: 68937-96-2	3 - 10	Skin Irrit. 3, H316 Skin Sens. 1B, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
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 - 3	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
Hydrocarbon polymer	CAS-No.: Confidencial	1 - 3	Asp. Tox. 1, H304
Mineral oil	CAS-No.: 64742-54-7, 64742-65-0, 64742-55-8, e 64742-56-9	1 - 3	Asp. Tox. 1, H304
Alkenyl amine	CAS-No.: Confidencial	0.1 - 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).

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

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

First-aid measures after skin contact	: Wash skin with plenty of water. 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. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects	: May cause an allergic skin reaction.
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 mild skin irritation. Itching. Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause eye irritation.
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
Other medical advice or treatment	: Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Use self-contained breathing apparatus and chemically protective clothing.

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

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.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 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

Avoid release to the environment. 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. Very 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 : Clean contaminated surfaces with an excess of water. Absorb spilled material with sand or earth. Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

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	: Always wash hands after handling the product. 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

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Nitrile rubber gloves

Product: LUBRAX GOLD AX**SDS ID: 1024188****Revision date: 6/25/2025****Eye protection:**

Safety glasses

Skin and body protection:

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

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	: Liquid
Appearance	: Clear Liquid.
Colour	: Light amber
Odour	: petroleum-like odour
Odour threshold	: Not available
pH	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flash point	: 202 °C
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	: Not available
Density	: $\approx 0.8565 \text{ g/cm}^3$ (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)	: $\approx 91 \text{ cSt}$

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

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

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	: 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

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 2000 mg/kg Source: IUCLID
LC50 Inhalation - Rat (Dust/Mist)	2.18 mg/l Source: IUCLID

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) (Confidential)

ATE BR (oral)	500 mg/kg bodyweight
---------------	----------------------

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

Alkenyl amine (Confidential)	
ATE BR (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	: Causes mild skin irritation.
Serious eye damage/irritation	: Not available
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 (Confidential)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: Not available
------------------------	-----------------

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Alkenyl amine (Confidential)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: Not classified.
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 GOLD AX	
Kinematic Viscosity (40 °C)	≈ 91 mm ² /s

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Kinematic Viscosity (40 °C)	1.99 - 847 mm ² /s Temp.: '40 °C' Parameter: 'mm ² /s'

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

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

Symptoms/effects	: May cause an allergic skin reaction.
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 mild skin irritation. Itching. Cracking of the skin. Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

LC50 - Fish [1]	> 5000 mg/l Source: IUCLID
LC50 - Other aquatic organisms [1]	> 10 mg/l
EC50 - Crustacea [1]	> 10000 mg/l
NOEC chronic crustacea	= 10 mg/l

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) (Confidential)

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 (Confidential)

LC50 - Fish [1]	= 0.9 mg/l
-----------------	------------

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

Alkenyl amine (Confidencial)	
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 GOLD AX	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow)	3.9 - 6 Source: IUCLID

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	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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

In accordance with IMDG / IATA / ANTT

14.1 National and international Regulations

Not regulated for transport

Overland transport

UN-No. (ANTT)	: Not regulated
Proper Shipping Name (ANTT)	: Not regulated
Class (ANTT)	: Not regulated

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

Subsidiary risk (ANTT)	: Not regulated
Risk Number (ANTT)	: Not regulated
Packing group (ANTT)	: Not regulated
Special provisions (ANTT)	: Not regulated

Transport by sea

UN-No. (IMDG)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Class (IMDG)	: Not regulated
Subsidiary hazard (IMDG)	: Not regulated
Packing group (IMDG)	: Not regulated
EmS-No. (Fire)	: Not regulated
EmS-No. (Spillage)	: Not regulated
Special provisions (IMDG)	: Not regulated

Air transport

UN-No. (IATA)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Class (IATA)	: Not regulated
Subsidiary hazards (IATA)	: Not regulated
Packing group (IATA)	: Not regulated
Special provisions (IATA)	: Not regulated

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

Product: LUBRAX GOLD AX

SDS ID: 1024188

Revision date: 6/25/2025

Abbreviations and acronyms

: ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
BLV - Biological limit value
BOD - Biochemical oxygen demand (BOD)
COD - Chemical oxygen demand (COD)
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
EC-No. - European Community number
EC50 - Median effective concentration
EN - European Standard
IARC - International Agency for Research on Cancer
IATA - IATA - "International Air Transport Association" (Associação Internacional de Transporte Aéreo)
IMDG - IMO - "International Maritime Organization" (Organização Marítima Internacional)
LC50 - Median lethal concentration
LD50 - Median lethal dose
LOAEL - Lowest Observed Adverse Effect Level
NOAEC - No-Observed Adverse Effect Concentration
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
OECD - Organisation for Economic Co-operation and Development
OEL - Occupational Exposure Limit
PBT - Persistent Bioaccumulative Toxic
PNEC - Predicted No-Effect Concentration
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet
STP - Sewage treatment plant
ThOD - Theoretical oxygen demand (ThOD)
TLM - Median Tolerance Limit
VOC - Volatile Organic Compounds
CAS-No. - Chemical Abstract Service number
N.O.S. - Not Otherwise Specified
vPvB - Very Persistent and Very Bioaccumulative
ED - Endocrine disruptor

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.