

Safety Data Sheet

In accordance with ABNT NBR 14725 Standard,
1st Edition (07/03/2023)



BDO 2002

Date of Preparation: 08/20/2025

Version: 01

1. PRODUCT AND COMPANY IDENTIFICATION

Substance identification:	BDO 2002
Other forms of identification:	Not applicable
Recommended use/Restrictions on use:	Degreaser/Demulsifier Emulsive, Non-toxic, and Biodegradable
Supplier:	AMERICA QUIMICA INDUSTRIAL LTDA
Address	Rua Floriano Peixoto, nº 300 - Centro – Anaurilândia / MS CEP: 79.770-037
Contact	Tel: +55 (21) 9830-6165 / +55 (67) 9600-4354 Email: financeiro@aquimica.com.br
Emergency Phone Number:	ABIQUIM / PRÓ-QUÍMICA: 0800-118270 (24 HOURS) INEA-RJ: + 55 (21) 2253-1177

2. HAZARD IDENTIFICATION

2.1 Classification of the Substance or Mixture

Not applicable.

2.2 Other hazards that do not result in a classification

Not applicable

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Preparation:		This product is a mixture of hydrogenated aliphatic hydrocarbon, terpene hydrocarbon, and non-anionic surfactants.	
Chemical nature:		Hydrogenated hydrocarbon	
Ingredients contributing to the hazard:			
Item	Chemical or generic name	CAS number	Concentration range (%)
01	Aliphatic hydrocarbons	64742-48-9	>60.0
02	Terpenic hydrocarbon	977154-09-08	> 5.0
03	Castor oil	8001-79-4	>7.0

4. FIRST AID MEASURES

Inhalation: Remove the victim to fresh air, keeping them lying down, still, and warm. Loosen clothing. If the victim is not breathing, perform artificial respiration or administer oxygen if breathing is difficult. Seek emergency medical assistance.

Skin contact: Remove contaminated clothing. Do not touch or rub the affected areas. Wash with running water for 20 minutes. If irritation occurs, seek medical attention.

Eye contact: Do not rub. Remove contact lenses, if present. Rinse with running water for at least 15 minutes. Consult an ophthalmologist if irritation or adverse effects occur.

Ingestion: Do not induce vomiting. Vomiting may cause aspiration of the product into the lungs (chemical pneumonitis). If the victim vomits spontaneously after ingestion, keep their

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head to one side to prevent aspiration. If the victim is conscious, give them 3 to 4 glasses of cold water little by little to dilute the contents of their stomach. Seek medical assistance immediately.

Actions to avoid: Do not administer anything orally if the person is unconscious.

Medical note: There is no specific antidote. Treatment is based on medical criteria, according to the patient's reactions. Gastric lavage should be applied with caution. Do not give mineral oil, as it may increase the absorption of hydrocarbons.

5. FIREFIGHTING MEASURES

Fire hazard: Not applicable. Containers exposed to fire heat should be cooled with water and removed from the site if this can be done without risk.

Extinguishing media: Compatible with: Water mist, CO₂, hydrocarbon foam, and dry chemical powder.

Incompatible: Full water jet.

Firefighting: Not applicable. Firefighters should use self-contained breathing apparatus and high-temperature protective clothing.

Sensitivity to mechanical impact: Not applicable

Sensitivity to static discharge: Not applicable **Lower**

flammability limit (air): Not applicable **Upper**

flammability limit (air): Not applicable **Flash point:** Not applicable

Autoignition temperature: Not applicable

Hazardous combustion products: Not applicable

6. CONTROL MEASURES FOR SPILLS OR LEAKS

6.1 Personal precautions, protective equipment, and emergency procedures for: Non-emergency personnel: Use PPE (gloves, helmet, safety glasses). **Emergency personnel:** Use PPE (gloves, helmet, safety glasses).

6.2 Environmental precautions

Contain the liquid to prevent soil or water contamination.

6.3 Methods and materials for containment and cleaning

Recovery: Whenever possible, recover the product with non-flammable material (sawdust, straw, or other absorbent material) and remove contaminated soil by placing it in barrels or containers for reuse or treatment. The product that falls into the water will remain on the surface; use containment barriers to prevent its spread and recover the product.

Disposal: Do not dispose of in regular trash. Incineration or co-processing. The recovered product can be sent to refining companies approved by the ANP. Water contaminated with the product can be sent to industrial sewage for treatment, disposed of in accordance with local legislation through a waste disposal permit.

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Prevention of secondary hazards: The product can be incinerated or disposed of in an industrial landfill.
Follow procedures for entering confined areas: ASTM D-4276 and OSHA 29CFR 1910.146.

7. HANDLING AND STORAGE

Procedures for safe handling:

Handle the product in accordance with safety standards. Complies with NR 16 and 20. The product must be handled in accordance with industrial hygiene and occupational safety standards and procedures in accordance with current legislation. Use the personal protective equipment indicated in section 8. Drums containing the product must be stored on wooden pallets or slats, protected from sunlight, rain, and away from flames, fire, sparks, and heat sources.

Safe storage conditions, including any incompatibilities:

Keep the container tightly closed. Store in a dry, ventilated place away from bad weather.

Packaging: Store in metal drums, carbon steel cans, and HDPE (high-density polyethylene) or PP (polypropylene) plastic containers.

Hazard signage (NFPA 704 Standard— National Fire Protection Agency):

Health Hazards— 0 (Minimal Hazards)

Flammability— 0 (No hazard under normal conditions) Reactivity— 0

(No hazard under normal conditions) Special Recommendations -

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering control measures: Maintain adequate ventilation with exposure limits below those determined

Hygiene measures: Do not smoke, drink, or eat in areas where the product is handled, stored, or transported.

Personal protective equipment

Eye protection: Wear wide-view safety glasses

Skin and body protection: Cotton clothing, chemical-resistant apron, and PVC or leather boots.

Hand protection: Wear short or long nitrile latex or PVC gloves.

Respiratory protection: Not applicable

Specific Control Parameters

Occupational exposure limit Not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

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Form: Emulsion

Color: Opaque

Odor: Characteristic

pH: 7.0 - 7.5 (10% solution)

Melting point/freezing point: Not available

Initial boiling point: Not available

Temperature range: Not available **Boiling point:** Not available

Flash point, °C: Open cup: Not available

Closed cup: Not available

Evaporation Rate relative to ether =1: Not available

Flammability: Not available

Lower flammability limit: Not available **Upper flammability limit:** Not available

Vapor pressure: Not available

Vapor density: (Air=1): >1.00

Density at 20°C g/: 0.930

Solubility: Emulsion form

-n-octanol/water partition coefficient: Not available

Autoignition temperature: 363°C

Decomposition temperature: Not available

Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity/stability: Stable at normal temperatures and pressures.

Conditions to avoid: Not applicable

Incompatibility/Materials to avoid: Incompatible with oils in general

Hazardous decomposition products: Not applicable

11. TOXICOLOGICAL INFORMATION

Main symptoms: Not applicable

Skin contact: Not applicable

Eye contact: May cause mild to moderate irritation.

Inhalation of vapors: Not applicable. Product does not release vapors.

Ingestion: In vomiting, the main risk is chemical pneumonitis, pulmonary edema, and hemorrhage resulting from aspiration into the airways.

LD50 (oral; rats): Not applicable

LD50 (dermal, rabbits): Not applicable

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LC50 (inhalation, rats): Not applicable

Reproductive and developmental toxicity: Non-toxic. The product has no mutagenic, teratogenic, or carcinogenic properties.

12. ECOLOGICAL INFORMATION

Environmental effects, behaviors, and impacts of the product:

Biodegradable product, causes no environmental impact.

13. CONSIDERATIONS REGARDING TREATMENT AND DISPOSAL

Recommended methods for final disposal:

Waste disposal must be carried out in accordance with federal or local legislation to ascertain existing restrictions. Do not dispose of in sewage, soil, or any body or source of water.

Relevant information regarding discharge through wastewater:

For unused or uncontaminated product, the preferred option is to reuse, incinerate, or destroy in a thermal incinerator.

Treatment of container/packaging waste:

Packaging must not be reused to package other products.

14. TRANSPORT INFORMATION

National and international regulations

Land:	Resolution No. 420 of February 12, 2004, of the National Land Transport Agency (ANTT).
UN number:	Not applicable
Proper shipping name:	BDO 2002
Risk class/main risk subclass:	Not
applicable Risk class/subsidiary risk subclass:	Not
applicable Hazard number:	Not applicable
Packing group:	Not applicable

National and international regulations

Waterway:	Not applicable
UN number:	Not applicable
Proper shipping name:	BDO 2002
Hazard class/primary hazard subclass:	Not
applicable Subsidiary risk class/subsidiary risk subclass:	Not
applicable Hazard number:	Not applicable
Packaging group:	Not applicable

National and international regulations

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Air:	Not applicable
UN number:	Not applicable
Proper shipping name:	BDO 2002
Hazard class/primary hazard subclass:	Not
applicable Subsidiary risk class/subsidiary risk subclass:	Not
applicable Hazard number:	Not applicable
Packaging group:	Not applicable

15. REGULATIONS

ANTT Resolution No. 420: Defines the regulations for the transport of dangerous goods.

This Safety Data Sheet was prepared in accordance with the 1st edition of NBR 14725 of July 3, 2023, from ABNT (Brazilian Association of Technical Standards).

16. OTHER INFORMATION

In places where chemicals are handled, worker exposure must be monitored in accordance with the Environmental Risk Prevention Program (PPRA) of NR-9. Employees who handle chemicals, in general, must be monitored biologically in accordance with the Occupational Health Medical Control Program (PCMSO) of NR-7.

The information and recommendations contained in this publication have been researched and compiled from reputable sources, suppliers' SDSs, and legislation applicable to the product.

This SDS has been prepared in accordance with NBR 14725 (Safety Data Sheet—) and the data refers to a specific product and may not be valid where that product is being used.

combinação com outros. A Pershy Chemical's com os dados desta ficha, não intends to establish absolute and definitive information about the product and its risks, but to provide information, based on what is known, to its employees and customers for their individual protection, maintenance of operational continuity, and preservation of the environment.

ACRONYMS USED:

N.A. = Not Applicable	N.A. = Not Available	N.R. = Not Relevant.
NR = Regulatory Standard	N.E. = Not specified	VM = Maximum Value.
LT – MP = Tolerance Limit	– Weighted Average	
ACGIH = American Conference of Governmental Industrial Hygienists		
TLV TWA = Threshold Limit Value	– Time Weighted Average	
TLV – STEL = Threshold Limit Value	– Short-Term Exposure Limit	
IARC = International Agency for Research on Cancer		
PPRA = Environmental Risk Prevention Program		
PCMSO = Occupational Health Medical Control Program	IMDG =	
International Maritime Dangerous Goods Code		
IATA-DGR = International Air Transport Association	– Dangerous Goods Regulation	
IDLH = Immediately Dangerous to Life or Health		
OSHA = Occupational Safety and Health Administration		