

# SAFETY DATA SHEET

**Product:** ÓLEO DIESEL MARÍTIMO A

Revision: 03

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## 1 - IDENTIFICATION

GHS Product identifier:	ÓLEO DIESEL MARÍTIMO A
Other means of identification:	ODS650
Recommended use of the chemical:	Marine fuel.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	<p>Acelen</p> <p><b>Address:</b> ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil.</p> <p><b>Phone number:</b> (71) 3511-8000 / (11) 5225-8900</p>
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)

## 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	<p>Acute Toxicity - Inhalation - Category 3;</p> <p>Skin Corrosion/Irritation - Category 2;</p> <p>Carcinogenicity - Category 2;</p> <p>Aspiration Hazard - Category 2;</p> <p>Hazardous to the Aquatic Environment - Acute Hazard - Category 3;</p> <p>Hazardous to the Aquatic Environment - Chronic Hazard - Category 3.</p>
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

### GHS label elements, including precautionary statements

Pictograms:



Signal word:	DANGER
Hazard statement(s):	<p>H305 May be harmful if swallowed and enters airways.</p> <p>H315 Causes skin irritation.</p> <p>H331 Toxic if inhaled.</p> <p>H351 Suspected of causing cancer in contact with skin.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
Precautionary statement(s):	<p><b>PREVENTION:</b></p> <p>P203 Obtain, read and follow all safety instructions before use.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.</p> <p><b>RESPONSE TO EMERGENCY:</b></p> <p>P301 + P316 IF SWALLOWED: Get emergency medical help immediately.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of water.</p>

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P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P316 Get emergency medical help immediately.  
 P318 IF exposed or concerned, get medical advice.  
 P321 Specific treatment.  
 P331 Do NOT induce vomiting.  
 P332 + P317 If skin irritation occurs: Get medical help.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

**STORAGE:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**DISPOSITION:**

P501 Dispose of contents and container in accordance with local regulations.

Other hazards which do not result in classification: The product has no other hazards.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**SUBSTANCE** A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 to C20 and distilling in the range of approximately 163°C to 357°C (325°F to 675°F).

Common chemical name: Fuels, diesel.

Common name(s), synonym(s) of the substance: Fuel oil;

CAS: 68334-30-5

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance: Does not contain components that contribute to the hazard.

### 4 - FIRST-AID MEASURES

**Description of necessary first-aid measures**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation effects may not be immediate. Contact immediately a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

**Skin:** Take off all contaminated clothing. Wash the skin with sufficient amount of water or take a shower. The effects caused by contact with the skin may not be immediate. Contact immediately a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

**Eye:** Wash the eyes with sufficient amount of water immediately for several minutes, keeping the eyes opened. In case of use of contact lenses, remove them, if possible. Keep washing. Contact a doctor. Bring this document.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. The effects by mouth may not be immediate. Contact immediately

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a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

**Most important symptoms/effects, acute and delayed:** Causes skin irritation with redness and swelling. May be harmful if swallowed and enters airways. Toxic if inhaled.

**Indication of immediate medical attention and special treatment needed, if necessary:** Avoid contact with the material to help the victim. Keep victim warm and quiet. Symptomatic treatment should comprise mainly supportive measures such as correction of electrolyte disturbances, metabolic, and respiratory support. In case of skin contact do not rub the affected area.

### 5 - FIRE-FIGHTING MEASURES

**Extinguishing media:** Appropriate: carbon dioxide (CO<sub>2</sub>), foam, water mist and powder.  
Inappropriate: water directly onto the burning material.

**Specific hazards arising from the chemical:** Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide.  
Very dangerous when exposed to excessive heat or other sources of ignition such as sparks, open flames or flames of matches and cigarettes, welding operations, pilot lights and electric motors. Can accumulate static charge by flow or agitation. Vapors from heated liquid can be ignited by static discharge. Vapors are heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Can travel great distances causing retrogression of the flame or new fires both in open environments in as confined ones. Containers may explode if heated.

**Special protective actions for fire-fighters:** Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

### 6 - ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without the use of appropriate clothing. Avoid exposure to the material. Stay in a safe place, with wind from behind. Use personal protective equipment as described in Section 8.

**For emergency responders:** Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.

**Environmental precautions:** Avoid that the spilled material reaches waterways or sewage system.

**Methods and materials for containment and cleaning up:** Use water mist or vapor suppressing foam to reduce the dispersion of vapors. Use natural barriers or spill containment. Collect spilled material and put it into containers. Adsorb the remaining material with dried sand, vermiculite or any other inert material. Put the adsorbed material in appropriate containers and remove them to a safe place. Use tools that do not cause sparks to collect absorbed material. For final destination, proceed pursuant to Section 13 of this document.  
Large spill: confine the liquid into a dike away from the spills for later and proper disposition. Water mist can be used to reduce of vapors, but it wont prevent ignition in closed environments.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

**Precautions for safe handling:** Handle in a ventilated area or with a general local exhaust/ventilation system. Avoid formation of vapors and mists. Handling the material can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.

**General hygiene:** Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the

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bathroom. Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.

### Conditions for safe storage, including any incompatibilities

**Technical measures for prevention of fire and explosion:** Keep away from heat, sparks, open flames and hot surfaces. - Do not smoke. Keep container tightly closed. Ground the container vessel and the receiver of the material during transfers. Only use anti-sparking tools. Avoid the accumulation of electrostatic charges. Use electrical equipment, ventilation and lighting explosion proof. Use personal protective equipment as described in Section 8.

**Conditions for safe storage, including any incompatibilities:** Store in a well ventilated place, away from sunlight. Keep container closed. Keep away from high temperatures and ignition sources.  
It is not necessary addition of stabilizers and antioxidants to ensure the durability.  
Keep away from incompatible materials.

**Packaging compatibilities:** Similar to the original packaging.

**Inadequate packaging materials:** There are not known unsuitable material.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Occupational exposure limit:** The values below apply to workplaces.

ACGIH - TLV - TWA: 100 mg/m<sup>3</sup> (IFV).

IFV: Inhalable fraction and vapor.

**Biological limit:** Not established.

**Other limits and values:** Not established.

**Appropriate engineering controls:** Promote ventilation combined with local exhaustion, especially when product vapors/mists form. It is recommended to make emergency showers and eye wash stations available in the work area. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

### Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection:** Wide-view glasses with splash protection.

**Skin protection:** Safety shoes and safety clothing to protect the whole body from chemical splashes. Protective gloves against chemicals such as PVC.

**Respiratory protection:** It is recommended to use a respirator with filter for organic vapors for medium exposures above half of TLV-TWA. In cases where exposure exceeds 3 times the TLV-TWA value, use stand-alone type respirator (SCBA) with air supply, full face part, operated in positive pressure mode. Follow the guidance of the Respiratory Protection Program (PPR), Fundacentro.

**Thermal hazards:** Does not present thermal hazards.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Aspect:** Liquid, limpid.

**Color:** Not available.

**Odour:** Not available.

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Melting point/freezing point:	-40 to 6 °C (-40 to 42.8 °F).
Boiling point or initial boiling point and boiling range:	141 to 462 °C (285.8 to 863.6 °F).
Flammability:	Not available.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	> 56 °C (132.8 °F) - Closed cup.
Auto-ignition temperature:	≥ 225 °C (437 °F).
Decomposition temperature:	Not available.
pH:	Not applicable.
Kinematic viscosity:	≥ 1.5 mm <sup>2</sup> /s at 40 °C (104 °F).
Solubility(ies):	Immiscible in water.
Partition coefficient n-octanol/water (log value):	log <i>K</i> <sub>ow</sub> : 7.22.
Vapour pressure:	0.4 kPa at 40 °C (104 °F).
Relative vapour density:	Not available.
Density and/or relative density:	Absolute density: 0.8 to 0.91 g/cm <sup>3</sup> .
Particle characteristics:	Not applicable.
Other information:	Not applicable.

### 10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	There are not known hazardous reactions with the material.
Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Oxidizing agents.
Hazardous decomposition products:	During combustion, it releases light and heavy hydrocarbons and coke. When heated, it can release hydrogen sulfide.

### 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by oral and dermal. Toxic if inhaled.
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	LC <sub>50</sub> Vapours (rats, 4h): 3.6 (fêmeas) - 5.4 (machos) mg/L. LD <sub>50</sub> Oral (rats): 17900 mg/kg. LD <sub>50</sub> Dermal (rabbits): > 5000 mg/kg.	
Skin corrosion/irritation:	Causes skin irritation with redness and swelling.	
Serious eye damage/irritation:	Not classified for serious eye damage/eye irritation. In rabbit studies, the test material did not exhibit corneal opacity and the mild irritation was reversible within seven days, indicating a non-irritating response.	
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.	
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.	
Carcinogenicity:	Suspected of causing cancer in contact with skin. VGO/hydrocracked/distillate fuels have exhibited varying levels of activity in carcinogenicity tests with some materials demonstrating low carcinogenic potential and others a marked response in the presence of severe irritation. Carcinogenic activity is reported in the presence of repeated dermal irritation, which can be avoided by limiting the irritation. However, in view of the questionable adequacy of PAH analysis and the high levels of phenanthrene and pyrene found in some samples tested in the main study, it is uncertain whether a genotoxic mechanism can be ruled out. Therefore, VGO/hydrocracked/distillate fuels are classified as Category 2, H351, according to EU CLP Regulation (EC)1272/2008. This is in line with the harmonized classification assigned to most members of the category as per Annex VI of the regulation.	
Reproductive toxicity:	It is not expected to be reproductively toxic.	
STOT - Single exposure:	It is not expected to exhibit specific target organ toxicity by single exposure.	
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.	
Aspiration hazard:	May be harmful if swallowed and enters airways.	

### 12 - ECOLOGICAL INFORMATION

Toxicity:	Harmful to aquatic life with long lasting effects. LC <sub>50</sub> (Fish, 96 h): 21 mg/L; LC <sub>50</sub> (Green algae, 72 h): 22 mg/L; EC <sub>50</sub> (Crustacea, 48 h): 68 mg/L.
Persistence and degradability:	It has no persistence and is considered rapidly degradable. Degradation was achieved at varying levels in the available tests. Two tests indicate that the substance is readily biodegradable (ignoring the 10-day window). As the 10-day window is not relevant for UVCB substances, the substance is considered to be readily biodegradable.
Bioaccumulative potential:	Presents high bioaccumulative potential in aquatic organisms. log K <sub>ow</sub> : 7.22.
Mobility in soil:	Not determined.
Other adverse effects:	The release of large amounts of product can cause undesirable environmental effects, such as the reduction of oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating and consequent suffocation of animals.

### 13 - DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated

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for each specific product.

Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### 14 - TRANSPORT INFORMATION

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	1202
Proper shipping name:	DIESEL FUEL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is not considered dangerous for the environment for land transport.
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	1202
Proper shipping name:	DIESEL FUEL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is not considered dangerous for the environment in rail transport.
<b>Sea:</b>	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	1202
Proper shipping name:	DIESEL FUEL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	It's not considered a marine pollutant for transportation.
EmS:	F-E,S-E
<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	1202
Proper shipping name:	DIESEL FUEL

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Primary risk class or division:	3	
Subsidiary risk class or division:	NA	
Packing group:	III	
Environmental hazards:	The product is not considered dangerous for the environment for air transport.	
Special precautions for user:	Not applicable.	
Maritime transport in bulk according to IMO instruments:	Consult regulations: <ul style="list-style-type: none"> <li>• International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;</li> <li>• International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.</li> </ul>	

### 15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

### 16 - OTHER INFORMATION

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

#### Change control:

Version	Manufacture date	Changes
03	03/26/2024	Change in section: 2, 3, 4, 5, 6, 7, 8, 13 and 16.

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 CAS - Chemical Abstracts Service;  
 EC - European Community;  
 EC<sub>50</sub> - Effective concentration of substance that causes 50 % of the maximum response;  
 K<sub>ow</sub> - Octanol-water partition coefficient;  
 LC<sub>50</sub> - Lethal Concentration 50%;  
 LD<sub>50</sub> - Lethal Dose 50%;  
 TLV - Threshold Limit Value;  
 TWA - Time Weighted Average;  
 UN - United Nations.

#### Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the

In accordance with Globally Harmonized System of  
Classification and Labelling of Chemicals (GHS)- Chapter 1.5  
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Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.