

SAFETY DATA SHEET

Product: ÓLEO DIESEL A S10

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1 - IDENTIFICATION

GHS Product identifier:	ÓLEO DIESEL A S10
Other means of identification:	ODS6DH
Recommended use of the chemical:	Used as fuel.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	Acelen Address: ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil. Phone number: (71) 3511-8000 / (11) 5225-8900
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Flammable Liquids - Category 3; Acute Toxicity - Inhalation - Category 4; Skin Corrosion/Irritation - Category 2; Carcinogenicity - Category 1B; Specific Target Organ Toxicity – Repeated Exposure - Category 2; Aspiration Hazard - Category 1; Hazardous to the Aquatic Environment - Acute Hazard - Category 3; Hazardous to the Aquatic Environment - Chronic Hazard - Category 3.
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):	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H332 Harmful if inhaled. H350 May cause cancer. H373 May cause damage to the blood, to the thyme and to the liver through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement(s):	PREVENTION: P203 Obtain, read and follow all safety instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical, ventilating and lighting equipment.

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P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash hands 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 TO EMERGENCY:

P301 + P316 IF SWALLOWED: Get emergency medical help immediately.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P317 Get medical help.
 P318 IF exposed or concerned, get medical advice.
 P319 Get medical help if you feel unwell.
 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.
 P370 + P378 In case of fire: Use carbon dioxide (CO₂), foam, water mist and powder to extinguish.

STORAGE:

P403 + P235 Store in a well-ventilated place. Keep cool.
 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. Consists of hydrocarbons having carbon numbers predominantly in the range of C9 to C20 and boiling in the range of approximately 163°C to 357°C (325°F to 675°F). This product contains additives.

Common chemical name: Distillates (petroleum), hydrotreated middle.

Common name(s), synonym(s) of the substance:

CAS: 64742-46-7

Components contributing to the hazard: Industrial secret 1: < 0.01 % (Classification: H314; H318; H302; H332) ¹.

¹ It does not have a CAS number because it is a mixture not registered in the Chemical Abstract Service database.

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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. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Skin:	Wash exposed skin with sufficient amount of water to remove the material. Take off and isolate contaminated clothing and shoes. In case of skin irritation: contact a doctor. Bring this SDS.
Eye:	Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse the victims mouth with water in abundance. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Most important symptoms/effects, acute and delayed:	Causes skin irritation with redness, pain and dryness. May be fatal if swallowed and enters airways. Harmful if inhaled. May cause damage to the blood, liver and thyme through prolonged or repeated exposure.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product 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 ₂), foam, water mist and powder. Inappropriate: water directly onto the burning material.
Specific hazards arising from the chemical:	The combustion of the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon 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 product. 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 product 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 SDS. Large spill: confine the liquid into a dike away from the spills for later and proper disposition. Water

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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 product 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 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 product 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: Not established.

Biological limit: Not established.

Other limits and values: Not established.

Appropriate engineering controls: Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the product.

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: Use of respirator with filter against vapors and organic mists is recommended for average exposures above half the TLV-TWA. In cases where exposure exceeds 3 times the TLV-TWA value, use a self-contained, full facepiece, air-supplied respirator (SCBA) operated in positive pressure mode. Follow guidance from the Respiratory Protection Program (PPR), 4th ed. São Paulo: Fundacentro, 2016.

Thermal hazards: It does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

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Aspect:	Liquid, limpid.	
Color:	Colorless to yellow.	
Odour:	Diesel characteristic.	
Melting point/freezing point:	-40 to 6 °C (-40 to 42.8 °F).	
Boiling point or initial boiling point and boiling range:	150 to 471 °C (302 to 879.8 °F) at 760 mmHg (101324.72 Pa).	
Flammability:	Flammable.	
Lower and upper explosion limit/flammability limit:	Upper: 6 % and Lower: 1 %.	
Flash point:	≥ 38 °C (100.4 °F) - Closed cup.	
Auto-ignition temperature:	≥ 225 °C (437 °F).	
Decomposition temperature:	400 °C (752 °F).	
pH:	Not applicable.	
Kinematic viscosity:	2 to 4.5 mm ² /s at 40 °C (104 °F).	
Solubility(ies):	Immiscible in water (< 100 mg/L (< 100000 mg/m ³) at 20 °C (68 °F)). Soluble in organic solvents.	
Partition coefficient n-octanol/water (log value):	log <i>K</i> _{ow} : 7.7 (calculated).	
Vapour pressure:	0.4 kPa at 40 °C (104 °F).	
Relative vapour density:	Not available.	
Density and/or relative density:	Absolute density: 0.815 to 0.85 g/cm ³ at 20 °C (68 °F).	
Particle characteristics:	Not applicable.	
Other information:	Distillation range: 100 – 400°C at 760 mmHg.	

10 - STABILITY AND REACTIVITY

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

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11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by oral and dermal. Harmful if inhaled. LC ₅₀ Dusts and mists (rats, 4h): 4.6 mg/L. LD ₅₀ Oral (rats): > 5000 mg/kg. LD ₅₀ Dermal (rabbits): > 2000 mg/kg.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	It is not expected to cause eye irritation.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.
Germ cell mutagenicity:	Not classified for germ cell mutagenicity. <i>in vitro</i> and <i>in vivo</i> mutagenicity studies showed negative results.
Carcinogenicity:	May cause cancer.
Reproductive toxicity:	Not classified for reproductive toxicity. Reproductive toxicity studies showed negative results.
STOT - Single exposure:	It is not expected to exhibit specific target organ toxicity by single exposure.
STOT - Repeated exposure:	May cause damage to the blood, liver and thymus through prolonged or repeated exposure.
Aspiration hazard:	May be fatal if swallowed and enters airways.

12 - ECOLOGICAL INFORMATION

Toxicity:	Harmful to aquatic life with long lasting effects. LC ₅₀ (<i>Oncorhynchus mykiss</i> , 96 h): 21 mg/L; EC ₅₀ (<i>Daphnia magna</i> , 48 h): 210 mg/L; ErC ₅₀ (<i>Pseudokirchneriella subcapitata</i> , 72 h): 22 mg/L.
Persistence and degradability:	It has persistence and is not considered rapidly degradable. Degradation rate: 35% in 28 days.
Bioaccumulative potential:	Presents high bioaccumulative potential in aquatic organisms. BCF: 1516 log K _{ow} : 7.7 (calculated).
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 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

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Road:	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.
Railway regulations:	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.
Sea:	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
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	1202
Proper shipping name:	DIESEL FUEL
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III

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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"> • 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; • 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.

15 - REGULATORY INFORMATION

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

16 - OTHER INFORMATION

This SDS 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 materials, 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.

Texts of Hazard statements (H) mentioned in section 3:

- H302 Harmful if swallowed;
- H314 Causes severe skin burns and eye damage;
- H318 Causes serious eye damage.

Change control:

Version	Manufacture date	Changes
04	10/27/2023	Change in composition. Change in section: 3.

<p>Abbreviations: ACGIH - American Conference of Governmental Industrial Hygienists; BCF - Bioconcentration factor; CAS - Chemical Abstracts Service; EC - European Community; EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response; EEC - European Economic Community; ErC₅₀ - Effective concentration that results in a 50% reduction in the growth rate; IARC - International Agency for Research on Cancer; K_{ow} - Octanol-water partition coefficient; LC₅₀ - Lethal Concentration 50%; LD₅₀ - Lethal Dose 50%; NIOSH - National Institute for Occupational Safety and Health;</p>
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In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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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 Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < <http://echa.europa.eu/web/guest> >. Access in: Oct. 2023.

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HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://pubchem.ncbi.nlm.nih.gov/>. Access in: Oct. 2023.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: Oct. 2023.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>. Access in: Oct. 2023.

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