In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

SAFETY DATA SHEET

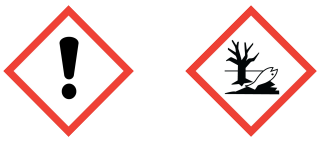
Product: VEGET'OIL AD

Revision: 03	Date: 10/23/2024	Pages: 1/8

1 - IDENTIFICATION

GHS Product identifier:	VEGET'OIL AD
Other means of identification:	OXIICE344
Recommended use of the chemical:	Use in agriculture.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	Oxiquímica Agrociência Ltda **Address**: Rua Minervino de Campos Pedroso, 13, Parque Industrial. CEP: 14871-360 - Brasil. **Phone number**: 16 3209 1313 **E-mail**: oxiquimica@oxiquimica.com.br
Emergency phone number:	16 3209 1313

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Acute Toxicity - Oral - Category 5; Acute Toxicity - Dermal - Category 5; Acute Toxicity - Inhalation - Category 4; Hazardous to the Aquatic Environment - Acute Hazard - Category 3; Hazardous to the Aquatic Environment - Chronic Hazard - Category 1.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.
GHS label elements, including precautionary statements	
Pictograms:	
Signal word:	WARNING
Hazard statement(s):	H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H332 Harmful if inhaled. H402 Harmful to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s):	**PREVENTION:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. **RESPONSE TO EMERGENCY:** P301 + P317 IF SWALLOWED: Get medical help. P302 + P317 IF ON SKIN: Get medical help. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P317 Get medical help. P391 Collect spillage.

	DISPOSITION: P501 Dispose of contents and container in accordance with local regulations.
Other hazards which do not result in classification:	It is not expected that product presents specific hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	
Common chemical name:	Vegetable oil.
Common name(s), synonym(s) of the substance:	Natural Oil.
CAS:	68956-68-3
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. 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:	Redness and tearing. May be harmful if swallowed. May be harmful in contact with skin. Harmful if inhaled.
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:	Suitable: carbon dioxide (CO_2), foam, water mist and powder. Unsuitable: water jet directly.

Specific hazards arising from the chemical:	The combustion or the chemical containers may form toxic and irritant gases such as carbon monoxide and carbon dioxide. Vapors may are heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. 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:	Do not smoke. Avoid exposure to the product. If necessary, 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.

7 - HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Avoid exposure to the chemical, since the effects may not be felt immediately.
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:	It is not expected that the product presents a fire or explosion hazard. 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. Keep a temperature controller in the storage location that can guarantee the following conditions: - Temperature 20 a 45°C. It is not necessary addition of stabilizers and antioxidants to ensure the durability.
Packaging compatibilities:	Plastic bottle (1 L), HDPE bottle (2 L and 3 L), Gallon (5 L), Bucket (20 L), Bottle (20, 50, 100 and 200 L) 200, 250, 500 mL and 1000 L), Tank Truck (10,000, 15,000 and 27,000 L).
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:	Safety glasses.
Skin protection:	Closed shoes and suitable protective clothing. Appropriate protective gloves.
Respiratory protection:	A risk assessment should be performed for proper definition of respiratory protection, in view of the material use conditions.
Thermal hazards:	Does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect:	Liquid.
Color:	Yellow (Gardner number 3).
Odour:	Characteristic.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	Not available.
Flammability:	Not flammable.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	> 221.8 °C (431.24 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	5.26 (1% (m/v)).
Kinematic viscosity:	Not available.
Solubility(ies):	Miscible in water.
Partition coeficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Relative vapour density:	Not available.

Density and/or relative density:	Absolute density: 0.924 g/cm³.
Particle characteristics:	Not applicable.
Other information:	Dynamic viscosity: 27.7 mPa.s at 40 °C (104 °F).

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Product stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	There are not known hazardous reactions with the material.
Conditions to avoid:	Elevated temperatures.
Incompatible material:	There are not known incompatible materials with the product.
Hazardous decomposition products:	There are not known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	May be harmful if swallowed. May be harmful in contact with skin. Harmful if inhaled. LC_{50} Dusts and mists (rats, 4h): > 4.057 mg/L. LD_{50} Oral (rats): > 2000 mg/kg. LD_{50} Dermal (rats): > 4000 mg/kg.
Skin corrosion/irritation:	Not classified for skin corrosion/irritation.
Serious eye damage/irritation:	Redness and tearing.
Respiratory or skin sensitization:	Not classified for skin sensitization. It is not expected to cause respiratory sensitization.
Germ cell mutagenicity:	Not classified for germ cell mutagenicity.
Carcinogenicity:	Not classified for carcinogenicity.
Reproductive toxicity:	Not classified for reproductive toxicity.
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:	It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Ecotoxicity:	Harmful to aquatic life. Very toxic to aquatic life with long lasting effects. LC_{50} (*Danio rerio*, 96 h): > 100 mg/L; ErC_{50} (*Pseudokirchneriella subcapitata*, 72 h): > 108 mg/L; EC_{50} (*Daphnia magna*, 48 h): >100 mg/L.
Persistence and degradability:	Due to the lack of data, it is expected to be persistent and not rapidly degraded.
Bioaccumulative potential:	Due to the lack of data, bioaccumulative potential in aquatic organisms is not expected.
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

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

Road:	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Vegetable oil)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is 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:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Vegetable oil)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is considered dangerous for the environment in rail transport.
Sea:	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

SAFETY DATA SHEET

Product: VEGET'OIL AD

UN number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Vegetable oil)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is considered a marine pollutant.
EmS:	F-A,S-F
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Vegetable oil)
Primary risk class or division:	9
Subsidiary risk class or division:	NA
Packing group:	III
Environmental hazards:	The product is considered dangerous for the environment for air transport.
Special precautions for user:	Not applicable.
Maritime transport in bulk according to IMO instruments:	Consult regulations: • 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 companys product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

SAFETY DATA SHEET

Product: VEGET'OIL AD

Version	Manufacture date	Changes
03	10/23/2024	Change in section: 2, 7, 9, 10 and 11.

Abbreviations:
ACGIH - American Conference of Governmental Industrial Hygienists;
CAS - Chemical Abstracts Service;
EC - European Community;
EC_{50}- Effective concentration of substance that causes 50 % of the maximum response;
EEC - European Economic Community;
ErC_{50}- Effective concentration that results in a 50% reduction in the growth rate;
LC_{50}- Lethal Concentration 50%;
LD_{50}- Lethal Dose 50%;
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, 2024.

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

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available in: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>. Access at: Oct. 2024.