

	SAFETY DATA SHEET		Page: 1 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name: VEGETABLE LOW ACIDITY ACID OIL.
Product Identifier: VEGETABLE ARE4.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Boiler/heater fuel (for heat and/or electricity production), Biodiesel feedstock.

1.3 Details of the supplier of the Safety Data Sheet

EXPLORA S.A.

Hipólito Yrigoyen 2933, (S2202DTG) Puerto General San Martín, Santa Fe, Argentina.
E: logistica@explora.com.ar.

1.4 Emergency telephone number

Emergency phone (24 hours): +54 9 3476 630465.

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Globally Harmonized System

The substance is not classified according to the Globally Harmonized System (GHS). However a safety data sheet is being supplied for it on request.

2.2 Label elements

GHS Label Elements: **Non-Regulated Material.**

Hazard Pictograms: **Non-Regulated Material.**

Signal word: **Non-Regulated Material.**

Hazard Statements: **Non-Regulated Material.**

Unknown Acute Toxicity: **100 percent of the mixture consists of ingredient(s) of unknown toxicity.**

2.3 Other hazards

None.

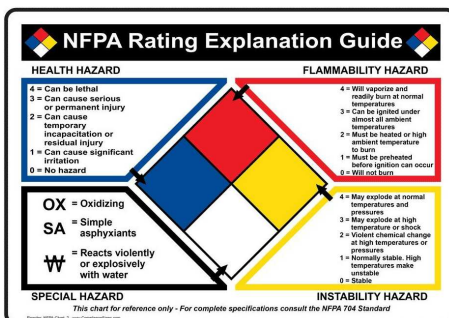
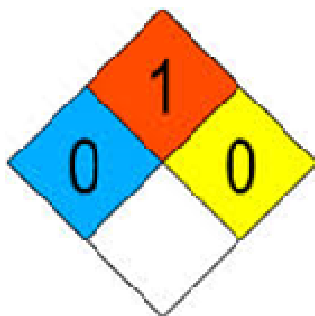
2.4 Other Non-GHS Classification

NFPA Classification (SCALE 0-4)

Health: 0 Flammability: 1 Reactivity: 0

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 2 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020



SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Vegetable Low Acidity Acid Oil (CAS 68956-68-3).

3.2 Mixtures

Mix of glycerides of different fatty acids from soybean oil, sunflower oil, peanut oil and corn oil.

It consists primarily of the glycerides of the fatty acids arachidic, behenic, capric, lauric, alpha-licanic, eleostearic, erucic, lignoceric, linoleic, linolenic, myristic, oleic, palmitic, ricinoleic, stearic. (Mixed vegetable).

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General Information:	No special measures required.
After Inhalation:	Supply fresh air; consult doctor in case of complaints.
After Skin Contact:	Generally the product does not irritate the skin.
After Eye Contact:	Rinse opened eye for several minutes under running water.
After Swallowing:	If swallowed and symptoms occur, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Agents: CO₂, sand, extinguishing powder. Do not use water.

For Safety Reasons Unsuitable Extinguishing Agents: Water

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 3 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

Special hazards arising from the substance or mixture: Possible risk of auto ignition/spontaneous combustion under high temperature, closed conditions if material is absorbed on various fiber matrices and in the presence of oxygen (e.g. oily rags).

5.2 Special hazards arising from the substance or mixture

Combustible. The liquid can burn but will not readily ignite.

5.3 Advice for firefighters

5.3.1 Firefighting instructions

The heated material may cause violent reaction when in contact with water. Hot material can be projected and cause serious burns. Addition of water or foam to the fire may cause frothing.

5.3.2 Protective Equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

5.3.3 Hazardous combustion products

In case of fire may release irritating fumes and gases and/or toxic gases, such as carbon monoxide and other substances derived from incomplete combustion.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

Consider the information and recommendations in sections 5 and 7. Use protective equipment recommended in Section 8.

6.2 Environmental precautions

Contain spilled liquid with a dam. Prevent entry into waterways, sewers, basements or confined areas. Hazard of physical contamination in case of spillage (coastlines, soil, etc.) due to its floatability and oily consistency.

Avoid entry of product into sewers and water intakes. Spills form a film on the water surface preventing oxygen transfer.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (i.e., sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

6.4 Reference to other sections

See Section 5 for information Firefighting Measures.
See Section 7 for information on Handling and Storage.
See Section 8 for information on Exposure Controls / Personal Protection.
See Section 13 for Disposal Considerations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 4 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

No special measures required.

7.1.1 Information about protection against explosions and fires: Soiled rags or absorbent material should not be kept under high temperature, closed conditions in the presence of oxygen.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a cool, dry, well ventilated area away from direct sunlight and any incompatible materials (see Section 10).

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed

Specific end use(s): Boiler/heater fuel (for heat and/or electricity production), Biodiesel feedstock.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

US. NIOSH: Pocket Guide to Chemical Hazards

Component: Glyceride mixture of different fatty acid of vegetable origin (CAS 68956-68-3).

TWA Short-term value: 5 mg/m³
Long-term value: 15 mg/m³

Additional Information: The lists that were valid during the creation of this SDS were used as basis.

Biological limit values: No biological exposure limits noted for the ingredient(s).

8.2 Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection: For prolonged or repeated skin contact use suitable protective gloves.

Other: Wear suitable protective clothing. Use impervious gloves.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Viscous liquid.

Color: Dark brown.

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 5 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

Odor:	Mild greasy odor.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Free Fatty Acid:	(As oleic acid) less than 5,0 %.
Change in condition	
Melting Point/Melting Range:	Not determined.
Boiling Point/Boiling Range:	Not determined.
Flash point:	> 160°C (> 320°F).
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not available.
Flammability limit – upper (%):	Not available.
Explosive limit - lower (%):	Not available.
Explosive limit - upper (%):	Not available.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density (15°C):	0,89 to 0,96 g/cm³.

Solubility(ies)

Solubility (water):	Insoluble.
Partition Coefficient (n-octanol/water):	Not determined.
Auto-ignition temperature:	> 175°C (> 347°F).
Decomposition temperature:	Not available.
Viscosity (40°C):	10 to 60 cSt.

9.2 Other information

Other properties:	None.
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SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 6 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation:	No adverse effects due to inhalation are expected.
Skin contact:	No adverse effects due to skin contact are expected.
Eye contact:	Direct contact with eyes may cause temporary irritation.
Ingestion:	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics:	Direct contact with eyes may cause temporary irritation.

11.2 Information on toxicological effects

Acute toxicity

Skin corrosion/irritation:	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation:	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization:	Not available.
Skin sensitization:	This product is not expected to cause skin sensitization.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.

Reproductive toxicity: Not available.

Specific target organ toxicity –

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 7 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

single exposure: Not applicable.

Specific target organ toxicity - repeated exposure: Not applicable.

Aspiration hazard: Not applicable.

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic Toxicity: No further relevant information available.

12.2. Persistence and degradability

Biodegradability (estimated): the product is biodegradable.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Recommendation: Review local regulations before cleaned up materials are introduced into sewer system or waste treatment systems.

13.2 Un-cleaned Packagings

Recommendation: Disposal must be made according to official regulations.

Recommended Cleansing Agent: Water, if necessary with cleansing agents.

SECTION 14 – TRANSPORT INFORMATION

14.1 UN-Number

DOT, ADR, AND, IMDG, IATA: Non-Regulated Material.

14.2 UN Proper Shipping Name

DOT, ADR, AND, IMDG, IATA: Non-Regulated Material.

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 8 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

14.3 Transport Hazard Class(es)

DOT, ADR, AND, IMDG, IATA: Non-Regulated Material.

14.4 Class

Packing Group

DOT, ADR, AND, IMDG, IATA: Non-Regulated Material.

Environmental Hazards: Not applicable.

Special Precautions for User: Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": -----

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act): Substance is listed.

California Proposition 65

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic Categories

EPA (Environmental Protection Agency): Substance is not listed.

TLV (Threshold Limit Value established by ACGIH): Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.

National Regulations: Substance is not listed.

State Right to Know: Substance is not listed.

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

16.1 Abbreviations and acronyms

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

IMDG: International Maritime Code for Dangerous Goods.

DOT: US Department of Transportation.

IATA: International Air Transport Association.

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B

	SAFETY DATA SHEET		Page: 9 de 9
	PRODUCT: VEGETABLE LOW ACIDITY ACID OIL		
	File: SDS-SM02-066	Rev.: B	Date: 11/27/2020

ACGIH: American Conference of Governmental Industrial Hygienists.
CAS: Chemical Abstracts Service (Division of the American Chemical Society).
NFPA: National Fire Protection Association (USA).
HMIS: Hazardous Materials Identification System (USA).

16.2 Key literature references and sources for data

Regulation (EC) 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Directive 91/689/EEC on hazardous waste and Directive 91/156/EEC on waste management.
European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2015).
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2015).
International Maritime Dangerous Goods Code (IMDG 34 ed.) IMO, Resolution MSC 90/28/Add.2.
IBC Code/MARPOL, IMO, Resolution MEPC 64/23/Add.1.
Regulations of the International Air Transport Association (IATA 56 ed., 2015) On the transport of dangerous goods by air.
Globally Harmonized System of Classification and Labelling of Chemicals, sixth revised edition, 2015 (SGA 2015).
International Agency for Research on Cancer (IARC), carcinogens classification. Revision: 03/23/2015.

16.3 Classification and procedure used to derive the classification for mixtures

The classification was performed based on chemical analogues and product information.
SECTION 2: classification by analogy with other products, and based on product data.
SECTION 9: product data.
SECTION 11 and 12: analogy with other products.
Acute toxicity: calculation method for estimating acute toxicity.

16.4 Disclaimer

This information only concerns the above mentioned product and is not to be valid for other (s) product (s) or in any process. This safety data sheet provides health and safety information. The information is to our best knowledge, correct and complete. It is given in good faith but without warranty. The product should be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other use, exposure should be evaluated so that they can implement appropriate handling practices and training programs to ensure safe operations in the workplace.
It remains the user's own responsibility that this information is appropriate and complete for the special use of this product.

16.5 Date of Preparation / Last Revision

Last Revision: 11/27/2020.

Prepared:	Checked:	Approved	File:
OA	OA	MCh	SDS-SM02-066-B