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	File: SDS-SM02-067	Rev.: A	Date: 11/30/2020

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

1.1 Product identifier

Product name: ANIMAL LOW ACIDITY ACID OIL.
Product Identifier: ANIMAL 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

This product is NOT classified as hazardous according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (OSHA / GHS). However, vegetable oil (in mist form) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.

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.

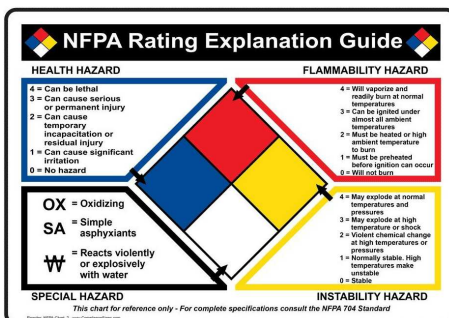
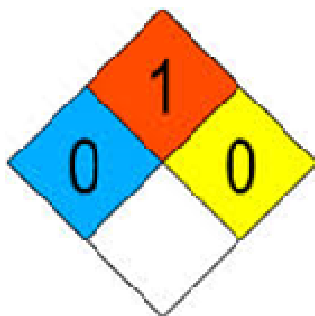
2.4 Other Non-GHS Classification

NFPA Classification (SCALE 0-4)

Health: 0 Flammability: 1 Reactivity: 0

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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

ANIMAL Low Acidity Acid Oil (CAS: 61789-97-7).

3.2 Mixtures

Mix of glycerides of different fatty acids from beef fats, tallow.

It consists primarily of the glycerides of the fatty acids caproic, caprilic, capric, lauric, linoleic, linolenic, myristic, oleic, palmitic, stearic.

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

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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

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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

Occupational Exposure limit values:

As an airborne mist containing vegetable oil, exposure limits pertaining to "vegetable oil mist" have been provided below.

ACGIH TLV: TVL: 10 mg/m³.
 OSHA PEL: TWA: 5 mg/m³ mist, respirable fraction. TWA: 15 mg/m³ mist, total.
 MEXICO: TWA: 10 mg/m³ except irritant oils.
 NIOSH: TWA: 5 mg/m³ respirable mist. TWA: 10 mg/m³ total mist.

Biological limit values:

No data available.

8.2 Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

8.3 General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

8.4 Individual protection measures, such as personal protective equipment

Eye/face protection: If exposed to airborne mist, or if splashing is possible, appropriate safety glasses with side-shields or safety goggles are recommended.

Skin and Body Protection: Oil resistant gloves are recommended. Appropriate body protection should be selected based on activity and possible exposure. Also take into consideration the specific local conditions under which the product is used.

Respiratory Protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Solid @ 20 °C / 68 °F; liquid @ 50 °C / 122 °F.

Color: Dark brown.

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/freezing point: Approx 40 °C / 104 °F.

Boiling Point/Boiling Range: Not determined.

Flash point: > 160°C (> 320°F).

Evaporation rate: Not available.

Flammability (solid, gas): Not flammable.
For the definition of flammability, REACH refers to regulation 67/548. According to this regulation flammability is not required for liquids if the flash point is above 60 °C. The flash point of this substance is above 160 °C, well above the limit of 60 °C.

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 (50°C / 122 °F): 0,9 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.

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Viscosity (50°C / 122 °F): 10 to 70 cSt.

9.2 Other information

Other properties: None.

SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity

This product is stable and hazardous reaction will not occur.

10.2. Chemical stability

Substance is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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. Strong bases.

10.6. Hazardous decomposition products

Combustion produces carbon monoxide, carbon dioxide along with thick smoke..

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Inhalation:	Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". Excessive inhalation of mist may result in respiratory irritation.
Skin contact:	Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.
Eye contact:	Direct contact with eyes may cause temporary irritation.
Ingestion:	Health injuries are not known or expected under normal use. Overexposure may cause gastrointestinal disturbance.

11.2 Information on toxicological effects

Acute toxicity:	Based on available data, no evidence of acute toxicity.
Skin corrosion/irritation:	Based on available data, not, or only slightly irritating.

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Serious eye damage/eye irritation:	Based on available data, no evidence of serious eye damage / irritation.
Respiratory or skin sensitization:	Based on available data, not expected to be a skin or respiratory sensitiser.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, no evidence of carcinogenicity.
Reproductive toxicity:	Based on available data, no evidence of reproductive toxicity.
Specific target organ toxicity – single exposure:	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, no known aspiration hazard.

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 in soil. The product is insoluble and floats on water.

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.

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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.

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

USA

Federal Regulations

Ozone Depleting Substances:
No Class I or Class II material is known to be used in the manufacture of, or contained in, this product.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

CERCLA/SARA 103-302

Sections 103-302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 103-302.

SARA 311/312 Hazardous Categorization

Acute Health Hazard: No.
Chronic Health Hazard: No.
Fire Hazard: No.
Sudden Release of Pressure Hazard: No.
Reactive Hazard: No.

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Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63)

This product is not known to contain any HAPS.

State Regulations

California Proposition 65

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source.

Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

Canada

WHMIS Product Classification

Not a WHMIS controlled product.

WHMIS Ingredient Disclosure List IDL

No known component is listed on the WHMIS ingredients disclosure list.

(NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

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.

ACGIH: American Conference of Governmental Industrial Hygienists.

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

NFPA: National Fire Protection Association (USA).

HMS: 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

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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: 11/30/2020

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