

Webinar: Technical and Product Data Sheets

This webinar is offered free of charge, courtesy of the SECO-funded and GIZ-implemented ABS Compliant Biotrade in South(ern) Africa (ABioSA) project



The ABS Initiative is funded by



and implemented by



Our History

Founded in 1999, Lisam Systems is a global provider of Environmental, Health and Safety (EH&S) compliance management software solutions and services, operating from 18 offices worldwide.



Over 20 years of experience in the chemical compliance market

Our Values:

Think Ahead **Be Passionate** **Strive for Excellence** **Foster Knowledge** **Value Customers**




LISAM Regulatory services

We have a **local support team**: with GHS expertise (globally), technical expertise and product expertise (waste, cosmetics (including Safety Assessments for the EU), industrial chemicals, gas, retail products, biocides) and **18 offices globally** enabling us to provide you with **up-to-date regulatory advice and software support**:


 REACH Registration


 REACH Only Representative (OR) services

 REACH Volume Tracking - EU Volume Tracking

 EU Poison center Notification

 Legal entity

 EU regulatory assessments

 EU COSMETIC Regulatory compliance – Safety Assessments, RP



Aim of the Lisam project

ABS Compliant Biotrade in South(ern) Africa Technical Support Project: To support AbioSA to respond to the gaps that were identified during the product dossier gap analysis in 2019

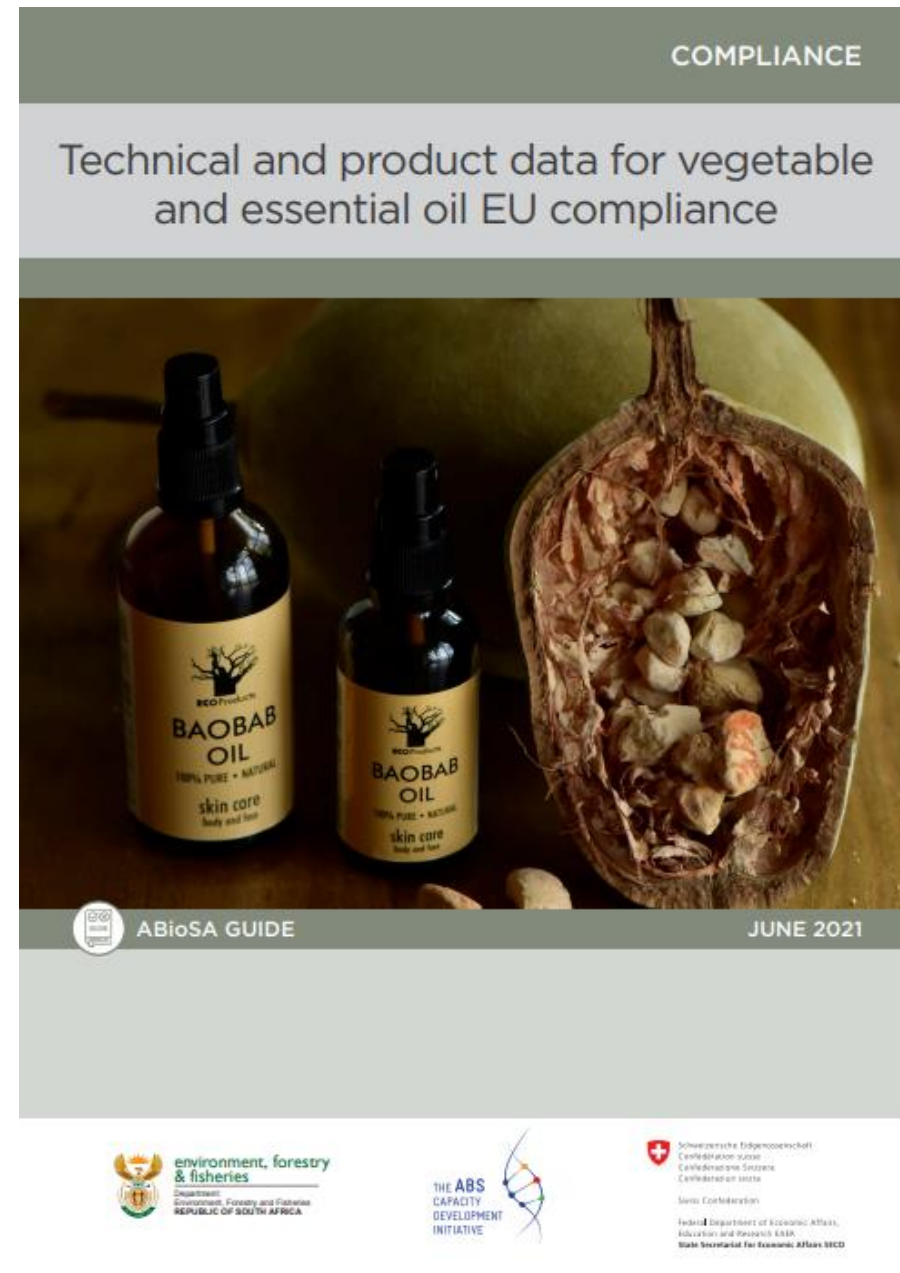
To provide small and medium sized enterprises(SMEs) and indigenous peoples and local communities (IPLCs) **with technical assistance** to ensure greater sector compliance of SMEs with EU regulations and where possible novel foods for primary ABioSA indigenous ingredients



Knowledge Product

Technical and Product data for Vegetable and Essential oil EU compliance

- Summary of the standard information found on a Technical Data Sheet (TDS) and Product Data Sheet (PDS)
- Physical/chemical data
- Technical data – performance/use of the oil
- Cosmetic Regulatory data





Technical Data Sheet



Technical Data Sheet (TDS)

What is a Technical Data Sheet (TDS)?

- A document that summarizes the important information of the oil e.g.: Physical/chemical properties, Storage requirements, handling instructions, etc.
- Sometimes referred to as a Specification sheet - but can differ
- Includes specific value or range of values acceptable for the product for specific parameters
- Includes the test method used to measure each parameter



Technical Data Sheet

General Information:

General Identification

- Family, genus, species and variety or cultivar of the plant the oil comes from
- The chemical name, CAS number, EC number and INCI name (if available)

General description of the product

- Country of origin
- Brief description of the composition
- Brief description of the manufacturing/extraction process

Picture of the product

	Seed or vegetable oil	Essential oil
General information		
Chemical and botanical name, CAS number if available, INCI name, etc.	x	x
General description of the product or oil, including origin and production, extraction process, overall composition etc.	x	x
Pictures of the final product	optional	optional
Physical and chemical data and technical information		
Appearance	x	x
Odour	x	x
Peroxide value	x	x
Acid value	x	x
Density	x	x
Refractive index	x	x
Solubility	x	x
Viscosity	x	x
Additional information on the performance of the product	x	x
Chemical composition		
Fatty acid composition - main components	x	
Main components - analysed by a gas chromatographic (GC) profile		x
Additional information		
Shelf life	x	x
Stability	x	x
Typical uses	x	x
Handling	x	x
Packaging and storage	x	x



Technical Data Sheet

Physical/Chemical data and technical information

- Customers will use this information to determine whether the raw material is suitable for its proposed application or formulation
- Technical suitability
- Regulatory compliance
- Additional information on the performance of the product (product application, suitable functions)

	Seed or vegetable oil	Essential oil
General information		
Chemical and botanical name, CAS number if available, INCI name, etc.	x	x
General description of the product or oil, including origin and production, extraction process, overall composition etc.	x	x
Pictures of the final product	optional	optional
Physical and chemical data and technical information		
Appearance	x	x
Odour	x	x
Peroxide value	x	x
Acid value	x	x
Density	x	x
Refractive index	x	x
Solubility	x	x
Viscosity	x	x
Additional information on the performance of the product	x	x
Chemical composition		
Fatty acid composition - main components	x	
Main components - analysed by a gas chromatographic (GC) profile		x
Additional information		
Shelf life	x	x
Stability	x	x
Typical uses	x	x
Handling	x	x
Packaging and storage	x	x



Technical Data Sheet

Chemical Composition and additional information

Chemical Composition – Main components

- Vegetable oil – Fatty acid composition – minor components also NB
- Essential oil – Gas Chromatography
- Minor components that are hazardous

Additional Information

- Shelf life – actual shelf life
- Stability of the oil
- Typical uses (cosmetic, Personal care products, Food, etc.)
- Handling – suitable environment, PPE, etc.
- Packaging and storage to maintain stability and shelf life

	Seed or vegetable oil	Essential oil
General information		
Chemical and botanical name, CAS number if available, INCI name, etc.	x	x
General description of the product or oil, including origin and production, extraction process, overall composition etc.	x	x
Pictures of the final product	optional	optional
Physical and chemical data and technical information		
Appearance	x	x
Odour	x	x
Peroxide value	x	x
Acid value	x	x
Density	x	x
Refractive index	x	x
Solubility	x	x
Viscosity	x	x
Additional information on the performance of the product	x	x
Chemical composition		
Fatty acid composition - main components	x	
Main components - analysed by a gas chromatographic (GC) profile		x
Additional information		
Shelf life	x	x
Stability	x	x
Typical uses	x	x
Handling	x	x
Packaging and storage	x	x



Product Data Sheet



Product Data Sheet

What is a product data sheet?

- Also known as a Product Information Sheet
- Typically includes information on:
 - Identity of the product
 - Composition
 - Specific test results (microbiology, mycotoxins, etc)
 - Regulatory information



Product Information Sheet

General information, identification and product description

Manufacture/Supplier information

General information on the manufacturer/supplier (name, Address, contact details, emergency contact number, etc.)

General Identification

- Names (Trade, Chemical, INCI, etc.)
- Chemical Abstract Service (CAS) number
- European Community (EC) Number
- REACH Registration Number – if applicable

	Seed or vegetable oil	Essential oil
General information, identification & product description		
Manufacturer/supplier information	x	x
General identification	x	x
Trade name		
Chemical name		
INCI name		
CAS number		
EC number		
REACH registration number		
Additional information		
Product information		
Country of origin	x	x
Product description	x	x
Origin of starting material	x	x
<i>If the product or substance is of plant origin, the PDS should identify the common names of the plant and its family, genus, species, variety and cultivar; and whether it is cultivated or harvested from the wild</i>	x	x
Description of the natural habitat and geographical distribution of the plant		
Description of the product or substance's commercial form: e.g. powder, liquid, solution, paste, etc.		
Production process – general description	x	x
Function/s related to cosmetics	x	x
Chemical composition, additives, and unavoidable material		
Fatty acid composition – main components	x	
Main components – analysed by a gas chromatographic (GC) profile		x
Preservatives	x	x
Allergens	x	x



Product Information Sheet

Product Information

Country of origin

Description of the product

Origin of starting Material

- Common name of the plant used
- Name of Cultivar, Species, Genus, family, etc. used
- Cultivated or harvested from the wild
- Description of the natural habitat and geographical distribution
- Commercial form (Liquid, power, etc.)

Production process

- General description on the production process – detail is NB (solvent extraction, cold pressed and filtered, steam distilled, etc.)
- Good Manufacturing practices (GMP)

Function/s related to cosmetics (Carrier, solvent, moisturiser..)

	Seed or vegetable oil	Essential oil
General information, identification & product description		
Manufacturer/supplier information	x	x
General identification	x	x
Trade name		
Chemical name		
INCI name		
CAS number		
EC number		
REACH registration number		
Additional information		
Product information		
Country of origin	x	x
Product description	x	x
Origin of starting material	x	x
<i>If the product or substance is of plant origin, the PDS should identify the common names of the plant and its family, genus, species, variety and cultivar; and whether it is cultivated or harvested from the wild</i>	x	x
Description of the natural habitat and geographical distribution of the plant		
Description of the product or substance's commercial form: e.g. powder, liquid, solution, paste, etc.		
Production process – general description	x	x
Function/s related to cosmetics	x	x
Chemical composition, additives, and unavoidable material		
Fatty acid composition – main components	x	
Main components – analysed by a gas chromatographic (GC) profile		x
Preservatives	x	x
Allergens	x	x



Product Information Sheet

Chemical composition, additives and unavoidable material

- Main components and their concentrations
- Minor components that contribute to the hazard classification or could adversely affect the toxicity of a cosmetic product.
- Allergens
- Residual solvents – if solvents are used in the extraction process
- Heavy metals and pesticides (technically unavoidable)
- Contaminants (byproducts, manufacturing process, packaging)

Additional Testing

- Microbiology
- Mycotoxins
- Physical/Chemical

Chemical composition, additives, and unavoidable material		
Fatty acid composition – main components	x	
Main components – analysed by a gas chromatographic (GC) profile		x
Preservatives	x	x
Allergens	x	x
Antioxidants	x	x
Residual solvents	x	x
Bleaching agents	x	x
Fragrances	x	x
Heavy metals	x	x
Pesticides	x	x
Contaminants or by-products from the manufacturing process	x	x
Microbiology		
<i>E. coli</i>	x	x
Total coliform count		
Total plate count		
Yeast and mould count		
<i>S. aureus</i>		
<i>P. aeruginosa</i>		
Mycotoxins		
Aflatoxin	x	
Fumotoxins		
Ochratoxins		
Zearlaleone		
Regulatory		
Animal testing statement	x	x
CMR declaration including avoidable and unavoidable contaminants from manufacturing, inherent from starting material, or leaching from packaging	x	x
Bovine Spongiform Encephalopathy (BSE) declaration	x	x
GMP statement/accreditation	x	x
GMO status	x	x
EU regulatory restrictions or prohibitions	x	x
Other regulatory compliance statements	x	x



Product Information Sheet

Regulatory

- No animal testing statement
- CMR (Carcinogens, Mutagens, Reproductive toxins) declaration
- GMP statement/certification
- GMO status
- EU regulatory restrictions and/or prohibitions
- Others regulatory compliance statements (safe use levels)
- Other regional regulatory information

	Seed or vegetable oil	Essential oil
Antioxidants	x	x
Residual solvents	x	x
Bleaching agents	x	x
Fragrances	x	x
Heavy metals	x	x
Pesticides	x	x
Contaminants or by-products from the manufacturing process	x	x
Microbiology		
<i>E. coli</i>	x	x
Total coliform count		
Total plate count		
Yeast and mould count		
<i>S. aureus</i>		
<i>P. aeruginosa</i>		
Mycotoxins		
Aflatoxin	x	
Fumotoxins		
Ochratoxins		
Zearlaleone		
Regulatory		
Animal testing statement	x	x
CMR declaration including avoidable and unavoidable contaminants from manufacturing, inherent from starting material, or leaching from packaging	x	x
Bovine Spongiform Encephalopathy (BSE) declaration	x	x
GMP statement/accreditation	x	x
GMO status	x	x
EU regulatory restrictions or prohibitions	x	x
Other regulatory compliance statements	x	x



Importance

Why are these documents important?

- Clearly outlines the physical and chemical properties of the product
- Allows customers to assess if the product will suit their needs/requirements
- All information required for a safety assessment is on one document
- Inspires overall confidence in the product
- Appeals to the international markets





Any Questions?



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for your attention.



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