

## Additional Information

Raw Oil Sample:	Result	Uncertainty	LOQ
Peroxide Value (meq/kg oil)	0.89 to 3.02	± 0.55	0.80
Acid Value (mg KOH/g sample)	2.50 to 2.79	± 0.43	0.11
Free Fatty Acids (g oleic acid/100g oil)	1.25 to 1.40	± 0.22	0.056
Anisidine Value (mmol/kg oil)	None to 2.32	± 0.38	0.52
Iodine Value	70.1 to 69.2	± 1.3	1.1
Behenic acid C22:0	4.60 to 4.78	±0.05	
Method of extraction	Cold Screw press		
Filtration method	Pressure filter 5 Micron		

## 1. Identification

Product identifier:	Moringa Cold Pressed Oil.		
Synonyms:	None.		
Company product code or Supplier code:	MOO: 01/2023		
Supplier:	Inca Green (Pty) Ltd Reg No: 2022/445221/07 14 Pieter Grobbelaar Street, Unit 2 Lephalale, Limpopo, South Africa Telephone: +27 (0) 83 320 4788 Email address (technical): george@incagreen.co.za		
Recommended use:	Cosmetic and Personal care.		
Restrictions on use:	Use only as prescribed on the label.		
Emergency numbers:	Medical:	National Emergency -10111 (24 hours)	
	Environmental:	NA	
	Transport:	Ambulance 10177	

## 2. Hazards identification

*Moringa oil* is a liquid oil substance.

Classification according to the GHS:	Not classified.
Signal word:	None.
Hazard statements:	None.
Caution:	This is an oil product, thus caution to be taken around flammable

Goods.  
The oil is for cosmetic and skin care use.

Precautionary statement: Dispose of contents and/or container in accordance with regulations (P501).

### 3. Composition/information on ingredients

Moringa Oil is a medium yellow with a hint of green oil substance obtained from the seeds of *Moringa oleifera* Lam.

The CAS number assigned to extracts obtained from *Moringa oleifera* is 93165-54-9.

Components	CAS number
Organic matter	Not applicable
Confidential permissible additives	None
Water	None
Nutritional and non-hazardous elements	None
Hazardous elements	None

### 4. First aid measures

Ingestion:	Most important acute symptoms/effects: diarrhoea, stomach and abdominal pain. IF SWALLOWED in excessive amounts, rinse mouth with water for several minutes. Drink water and get medical help if you feel unwell.
Inhalation:	Most important acute symptoms/effects: inhalation is not an expected route of exposure, and no specific, documented risks are associated with the product. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if the person feels unwell.
Eye contact:	Most important acute symptoms/effects: eye irritation, redness may occur. IF IN THE EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help.
Skin contact:	Most important acute symptoms/effects: skin irritation may occur. IF ON SKIN: Wash with soap and water. If skin irritation occurs, get medical help.
Most important delayed symptoms/effects after exposure:	None known are documented or expected. Seek medical attention if you feel unwell.
Indication of immediate medical attention:	If skin irritation occurs, or if eye irritation persists, or if a burning sensation in the airways remains, or if gastrointestinal problems persist, get medical help.

Protection of first responders: Avoid undue contact with the substance. Wear gloves and a mask to prevent transmission of pathogens.

## 5. Firefighting measures

Appropriate/suitable extinguishing media: Water spray, foam, carbon dioxide (CO<sub>2</sub>) or dry powder may be used but select extinguishing media that is appropriate for local circumstances and the surroundings.

Inappropriate extinguishing media: This is an oil substance. Do not use solid water stream, as it may scatter and spread fire known.

Nature of hazardous combustion products: Hazardous or suffocating vapours containing oxides of carbon (carbon dioxide, carbon monoxide), nitrogen, sulphur and phosphorus may be generated.

Other hazards arising from the substance: None known.

Special protective equipment: Avoid breathing dust, vapours and combustion by-products from other material in the vicinity. Use self-contained breathing apparatus and complete protective clothing. Do not attempt to act without suitable protective equipment.

Precautions and/or protective actions: Move containers from the fire area if it can be done without risk. Water spray may be used to cool down the containers, but only after considering other material in the vicinity that may pose a hazard. Stay upwind and keep out of low areas. Take precautions to prevent extinguishing media contaminating surface water or ground water.

## 6. Accidental release measures

Distinguish between large or small spills, or releases.

Personal precautions: Avoid contact of large amounts with skin and eyes.  
Wash hands after handling. Do not touch eyes.  
Do not eat, drink, or smoke during clean-up operations.

Protective equipment: Wear protective gloves/protective clothing/eye protection.  
In case of inadequate ventilation, wear respiratory protection.

Emergency actions and procedures: No special emergency actions or procedures are required. Ventilate the spill area.

Environmental precautions: Avoid release of large amounts to the environment. Prevent spills from entering storm sewers or drains. Report any large release to the appropriate authorities.

Methods and materials for containment and cleaning up: The product is an oil. Move intact containers from the spill area.

Small spills: Mop up into a suitable container for disposal and wash the area with soapy water.

Large spills: Isolate the spill area. Mop up into suitable containers for reclaiming or disposal. Flush the area with water if appropriate. Prevent the run-off entering sewers, water courses, basements, or confined areas. Dike if necessary.

Contact the supplier about possible reclaiming or dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

Precautions for safe handling: Handle responsibly. Prevent breakage of glass containers. No other special precautions are required.

Conditions for safe storage: Store in safe place to prevent breakage. Store below 25 °C out of direct sunlight. Keep out of reach of children and uninformed persons. Keep container closed.



Any incompatibilities: Avoid contact with strong oxidising agents, bases, or acids.

## 8. Exposure controls/personal protection

No occupational exposure limit values have been established for this substance.

No biological limit values are available for this substance. Intake should be moderate to prevent cumulative toxicity.

Appropriate engineering controls include local exhaust ventilation where the product is stored in large quantities.



## 9. Physical and chemical properties

Physical state	Liquid
Clarity:	No data available
Colour:	Medium yellow with a slight hint of green
Odour:	Pleasant nutty odour
Odour threshold:	No data available
Solidify point:	Oil starts to solidify at temperatures below 20°C
Melting point/freezing point:	Not available
Boiling point (or initial point and range):	Not available
Flammability (gases, liquids, solids):	Not applicable
Lower and upper explosion limits:	Not applicable
Lower and upper flammability limits:	Not applicable
Flash point:	>250 °C
Autoignition temperature:	Not applicable
Decomposition temperature:	No data available
pH, neat:	6
Kinematic viscosity (of liquids) in mm <sup>2</sup> /s:	No data available
Solubility in water:	Oil
Vapour pressure (at 25 °):	No data available
Density and/or relative density:	0.873 at 20°C
Relative vapour density:	No data available
Particle characteristics:	Not applicable
Evaporation rate:	No data available

## 10. Stability and reactivity

Chemical stability:	The substance is chemically stable, is not reactive and is not combustible when handled or stored at ambient temperatures and below.
Safety significance of any change in physical appearance:	The substance is not expected to change in physical appearance over time.
Possibility of hazardous reactions:	There is no possibility of hazardous reactions such as polymerisation.
Conditions to avoid:	Avoid direct sunlight and heat sources.
Incompatible materials:	There are no known incompatible materials apart from acids, strong bases and oxidising agents.
Hazardous decomposition products:	The substance is not expected to produce hazardous decomposition products when used and stored properly, but may decompose when heated, producing oxides of carbon, nitrogen, sulphur and phosphorous.

## 11. Toxicological information

**Routes of exposure:** Exposure to the substance predominantly occurs through skin and eye contact and through ingestion.

**Symptoms** related to the physical, chemical, and toxicological characteristics of the substance include gastrointestinal discomfort and possible irritation of the eyes and skin.

**Effects of exposure:** The specific effects of chronic (repeated) exposure, if any, are unknown but repeated overexposure should be avoided.

Hazard class	Hazard category	Rationale for classification
Acute toxicity, oral:	Not classified	Based on available data.
Acute toxicity, dermal:	Not classified	Based on available data.
Acute toxicity, inhalation:	Not classified	Based on available data.
Skin corrosion/irritation:	Not classified	Based on available data.
Serious eye damage/irritation:	Not classified	Based on available data.
Respiratory or skin sensitisation:	Not classified	Based on available data.
Germ cell mutagenicity:	Not classified	Based on available data.
Carcinogenicity:	Not classified	Based on available data.
Reproductive toxicity:	Not classified	Based on available data.
STOT single exposure:	Not classified	Based on available data.
STOT repeated exposure:	Not classified	Based on available data.
Aspiration hazard:	Not classified	Based on available data.

## 12. Ecological information

Acute toxicity for freshwater algae:	Not classified	Based on available data.
Chronic toxicity for freshwater algae:	Not classified	Based on available data.
Toxicity for other aquatic plants:	None expected	Based on the substance's composition.
Acute (short-term) toxicity for fish:	Not classified	Based on available data.
Acute toxicity for crustaceans:	Not classified	Based on available data.
Chronic (long-term) toxicity for fish:	Not classified	Based on available data.
Chronic toxicity for crustaceans:	Not classified	Based on available data.
Toxicity for birds:	None expected	Based on the substance's composition.

Toxicity for earthworms:	None expected	Based on the substance's composition.
Toxicity for terrestrial plants:	None expected	Based on the substance's composition.
Toxicity for honeybees:	None expected	Based on the substance's composition.
Toxicity for soil micro-organisms:	None expected	Based on the substance's composition.
Possible impact on sewage treatment:	No risk expected	Based on the substance's composition.
Persistence and degradability:		No data available.
Bio-accumulative potential:		No data available.
Mobility in soil and environmental fate:		No data available.
Ozone depletion potential:	None	Does not contain halocarbon molecules.
Photochemical ozone creation potential:		No data available.
Endocrine disrupting potential:		No data available.
Climate change potential:	None expected	Based on available data.
Other adverse effects:	None expected	

### 13. Disposal considerations

Avoid release of large amounts to the environment. Dispose of waste residues responsibly as low-hazard chemical waste through a licensed waste removal company.

Dispose of the container by rinsing it properly and recycling, or dispose of as ordinary waste through a licensed waste removal company.

Refer to the manufacturer or supplier for information on recovery or recycling, for options on reclamation, and on disposal of unused material.

The physical/chemical properties of the product should have no significant effect on disposal procedures.

There are no special precautions for landfill or incineration.

There is no other relevant information.

### 14. Transport information

UN number:	None. Not classified as dangerous in the context of transport regulations.
UN proper shipping name:	Not applicable.
UN packing group number:	Not applicable.
UN transport hazard class(es):	Not applicable.
A known marine pollutant (IMDG Code)?	Not a marine pollutant.

A known severe marine pollutant? Not a marine pollutant.  
Environmentally hazardous, ADR? Not classified as dangerous in the context of transport regulations.  
Environmentally hazardous, RID? Not classified as dangerous in the context of transport regulations.  
Environmentally hazardous, ADN? Not classified as dangerous in the context of transport regulations.  
Transport in bulk by sea, IMO? Not classified as dangerous in the context of transport regulations.  
There are no special precautions which a user needs to be aware of or needs to comply with.

## 15. Regulatory information

Relevant safety regulations: Regulations for hazardous chemical agents 2021, Department of Employment and Labour (March 2021).  
Relevant health regulations: Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).  
Relevant environmental regulations: The National Environmental Management Act, 107 of 1998 (NEMA). Guidelines on the administration of incidents, as described in section 30 of the NEMA, Department of Environmental Affairs (2019).  
Subject to the Montreal Protocol? No.  
Subject to the Stockholm Convention? No.  
Subject to the Rotterdam Convention? No.  
Subject to any prohibitions? No.  
Subject to any restrictions? No.

## 16. Other information

SDS identification or reference number: MOO 01/2023

Date of the previous revision of this SDS: Not applicable. Previous revision number: Not applicable.

There is no additional information relevant to the material's nature or use, or any other relevant information.

Abbreviations that may have been used:

AND means European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR means Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS means Chemical Abstract Service.

Cat. Means Category.

GHS means Globally Harmonised System of Classification and Labelling of Chemicals.

IMDG Code means International Maritime Dangerous Goods Code.

IMO means International Maritime Organisation.

NEMA means National Environmental Management Act.

RID means Regulations concerning the International Carriage of Dangerous Goods by Rail.



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SDS means safety data sheet.  
STOT means specific target organ toxicity.  
UN means United Nations.

This safety data sheet was compiled in compliance with the following regulations and guidelines:

- a. Regulations for hazardous chemical agents 2021, Department of Employment and Labour (March 2021).
- b. The globally harmonised system of classification and labelling of chemicals (GHS), 9th Revised Edition, United Nations (2021).
- c. Globally harmonised system of classification and labelling of chemicals (GHS), SANS 10234:2019, Ed. 2.00 (2019).

Supplier's declaration/disclaimer:

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