



# Sophix Natural

## And Agro Products Ltd

RC-1615742

### Design Report of Safety Data Sheet

ORIGINAL

<b>*Product Name:</b>	Clove Essential Oil
<b>*Applicant:</b>	Sophix Natural
<b>Supplier:</b>	Sophix Natural
<b>*Composition of the product :</b>	Clove Essential Oil (CAS: 84961-50-2 . : 100%
<b>Warranty of Design:</b>	Prepared according to American OSHA HazCom Standard (2012)
<b>*Information materials:</b>	HGBZ2309PQG 《Application》 、 P108095 《Declaration of consistency of components of the sample submitted for inspection》
<b>Sophix Natural &amp; Agro Products Ltd.</b>	

Name: Sophix Natural & Agro Products Ltd.

Add: Plot 9, Zone A, Liguori Street Off New Ife Road National Bus Stop Ibadan.

Web: [www.sophixnatural.com](http://www.sophixnatural.com)

Tel: +234 706 1111 838

E-mail: [sophixnatural@gmail.com](mailto:sophixnatural@gmail.com)

### Terms of the Using of the Report

1. According to the needs of issuing the report, the company requires the client to provide true and complete samples and data (see the report tape ★ for details). The Company will not bear any consequences caused by the wrong information provided by the Client. If the chemical information, authoritative database and relevant policy changes submitted by the client affect the conclusions of this report, this report will automatically become invalid. Unless otherwise specified, the data in this report are only responsible for the samples submitted for inspection, and the accuracy of sample composition information is the



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responsibility of the client. The hazard characteristics, transportation information and emergency measures of samples need to focus on the corresponding parts of this report.

2. The data source of this report is based on the relevant materials and information submitted by the client, the test results of international authoritative databases, laboratories and the current relevant knowledge of the company. We try our best to ensure the correctness of all information during the audit. However, due to the diversity of information sources and the limitations of the Company's knowledge, users of this report should make further judgments on the reasonableness of relevant information based on the purpose of use.
3. This report will be effective only after it is signed by the inspector, approver and stamped by our company.
4. Our company guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
5. This report does not consider the differences between countries and operators.
6. The partly duplicating of this report is prohibited without the written approver.
7. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.
8. This report is valid before the implementation of the new version of the standard.

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### Safety Data Sheet

Clove Essential Oil

**\*Prepared according to American OSHA HazCom Standard (2012)**

#### 1 Identification

##### Product identifier

Product Name	Clove Essential Oil
CAS No.	84961-50-2
EC No.	N/A
Molecular Formula	C <sub>28</sub> H <sub>60</sub> O <sub>4</sub> P <sub>2</sub> S <sub>4</sub> Zn

##### Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

##### Details of the supplier

Applicant Name	Sophix Natural
Applicant Address	Plot 9, Zone A, Liguori Street Off New Ife Road National Bus Stop Ibadan.
Applicant Post Code	---
Applicant Telephone	+234 706 1111 838
Applicant Fax	---
Applicant E-mail	sophixnatural@gmail.com
Supplier Name	Sophix Natural
Supplier Address	Plot 9, Zone A, Liguori Street Off New Ife Road National Bus Stop Ibadan.
Supplier Post Code	---
Supplier Telephone	+234 706 1111 838
Supplier Fax	---
Supplier E-mail	sophixnatural@gmail.com

##### Emergency phone number

Emergency phone number	07061111838
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#### 2 Hazard identification

##### Hazard classification according to GHS

According to OSHA HazCom regulations and its amendments, not classified as a hazardous

##### chemical. | GHS Label elements

Hazard pictograms	Not applicable
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Signal word	Not applicable
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### Hazard statements

Clove Essential Oil

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Hazard statements	Not applicable
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### Precautionary statements

☐ Prevention

Prevention	Not applicable
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☐ Response

Response	Not applicable
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☐ Storage

Storage	Not applicable
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☐ Disposal

Disposal	Not applicable
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### Hazard description

◆ Physical and chemical hazards

No information available
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☐ Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
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Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
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Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
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Eye	This product may cause temporary discomfort following direct contact with the eye.
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◆ Environmental hazards

Please refer to 12th chapter of SDS.
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Composition/information on ingredients

### Substance/mixture

Substance
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Component	CAS No.	EC No.	Concentration (wt, %)
Clove Essential Oil	84961-50-2	232-293-8.	100

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### First-aid measures



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### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	No harm in general situation. First aid is not needed.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Call a physician immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms/effects, acute and delayed

1	Please see section 11.
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### Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

### 5 Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable extinguishing media</b>	There is no restriction on the type of extinguisher which may be used.

### Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
2	Not considered a significant fire risk, however containers may burn.

### Special protective equipment and precautions for fire-fighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

1	Use personal protective equipment, do not breathe gas/mist/vapour/spray.
2	Ensure adequate ventilation. Remove all sources of ignition.
3	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.



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### Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7	Handling and storage
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### Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Avoid contact with eyes.

Clove Essential Oil

3	Keep away from heat/sparks/open flames/ hot surfaces.
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### Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8	Exposure controls/personal protection
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### Control parameters

Occupational Exposure limit values	No relevant regulations
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☐ Biological limit values

Biological limit values	No relevant regulations
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☐ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 series standard Determination of toxic substances in workplace air.

### Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.



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3	Set up emergency exit and necessary risk-elimination area.
4	Handle in accordance with good industrial hygiene and safety practice.

### Personal protection equipment

General requirement	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

### 9 Physical and chemical properties and safety characteristics

#### Physical and chemical properties

Appearance	Transparent liquid to Yellowish
Odor	Characteristic odor of Clove
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	N/A
Flash point(Closed cup, °C)	No information available
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive limits[% (v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	No information available
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Viscosity	No information available

### 10 Stability and reactivity



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### Stability and reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	No information available.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	No information available.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### Acute toxicity

<b>Acute toxicity</b>	No information available
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### Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Clove Essential Oil <b>ext.</b>	Not Listed	Not Listed

### Others

Clove Essential Oil , <b>ext.</b> (Component)	
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met





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STOT-repeated exposure

Based on available data, the classification criteria are not met

Aspiration hazard

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Reproductive  
toxicity(additional)

Based on available data, the classification criteria are not met

Ecological information

### Acute aquatic toxicity

Acute aquatic toxicity	No information available
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### Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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### Persistence and degradability

Persistence and degradability	No information available
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### Bioaccumulative potential

Bioaccumulative potential	No information available
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### Mobility in soil

Mobility in soil	No information available
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### Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Clove Essential Oil , ext	Not available

## 13 Disposal considerations

### Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

### 14 Transport information

### Label

Transporting Label	Not applicable
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### IMDG-CODE



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IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### ICAO/IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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Regulatory information

### International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIICS	ENCS
Clove Essential Oil , ext.	x	x	x	x	x	x	x	x	x

[EC inventory]	European Inventory of Existing Commercial Chemical Substances
[TSCA]	United States Toxic Substances Control Act Inventory
[DSL]	Canadian Domestic Substances List
[IECSC]	China Inventory of Existing Chemical Substances
[NZIoC]	New Zealand Inventory of Chemicals
[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIICS]	Australian. Inventory of Industrial Chemical (AIICS)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

Note:

“√” Indicates that the substance included in the regulations. “x” No data or not included in the regulations.

Other information

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### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.



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[7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>. [8] on hazard substance, website: <http://gestis-en.itrust.de/>.

Germany GESTIS-database

### Abbreviations and acronyms

CAS	Chemical Abstracts Service Short	UN	The United Nations
PC-STEL	PC-term exposure limit	OECD	Organization for Economic Co-operation and Development
TWA	Time Weighted Average	IMDGCODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer International Civil
DNEL	Derived No Effect Level	ICAO	Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP PBT	National Toxicology Program Persistent,
EC <sub>50</sub> EC <sub>x</sub>	Effective Concentration 50%	vPvB	Bioaccumulative, Toxic very Persistent,
POW	Effective Concentration X%	CMR	very Bioaccumulative
BCF ED	Partition coefficient Octanol: Water	RPE	Carcinogens, mutagens or substances toxic to reproduction
	Bioconcentration factor Endocrine disruptor		Respiratory Protective Equipment

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to New Zealand HSNO Regulations. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.