

Norfolk Essential Oils

Issue date: 09/07/2024

Version: 4 (09/07/2024)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Clove bud oil FPD-2016A-LM3588

Version: 4

Section 1. Identification of the substance or the mixture and of the supplier

1.1 Product Identifier

Product identifier: Clove bud oil; CAS: 84961-50-2

Other identifiers: Clove bud oil

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

Product uses: Flavours, Fragrances

1.3 Details of the supplier of the safety data sheet

Company name: Norfolk Essential Oils

Company address: Pates Farm

Wisbech Road

Tipsend Welney Wisbech PE14 9SQ

Contact: Regulatory Affairs

E-Mail address: info@neoils.com

Company phone: 01354 638065

1.4 Emergency telephone number

Emergency phone: 01354 638065

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

Class and category of Eye Damage / Irritation Category 2 danger:

Sensitization - Skin Category 1B

Aspiration Hazard Category 1

H304, May be fatal if swallowed and enters airways.

H317, May cause an allergic skin reaction.

H319, Causes serious eye irritation.

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Danger

Hazard statements: H304, May be fatal if swallowed and enters airways.

H317, May cause an allergic skin reaction.



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H319, Causes serious eye irritation.

M factor: None

Supplemental Information:

None

Precautionary statements:

P261, Avoid breathing vapour or dust.

P264, Wash hands and other contacted skin thoroughly after handling.

P272, Contaminated work clothing should not be allowed out of the workplace.

P280, Wear protective gloves/eye protection/face protection.

P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302/352, IF ON SKIN: Wash with plenty of soap and water.

P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P331, Do not induce vomiting.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P337/313, If eye irritation persists: Get medical advice/attention.

P363, Wash contaminated clothing before reuse.

P405, Store locked up.

P501, Dispose of contents/container to approved disposal site, in accordance with local

regulations.

Pictograms:





2.3 Other hazards

Other hazards: Hydrocarbon Concentration %: 18.0000%

Section 3. Composition / information on ingredients

3.1 Substances

Product identifier: Clove bud oil; CAS: 84961-50-2

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008	Specific Conc. Limits, M-factors and ATEs
Eugenol	97-53-0	202-589-1		50-100%	,	oral: ATE = 2300 mg/kg bw
beta-Caryophyllene	87-44-5	201-746-1		1111-<-211%	Skin Sens. 1B-Asp. Tox 1;H304-H317,-	



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Eugenyl acetate 93-28-7 202-23 <mark>5-6</mark>	5-<10%	Acute Tox. 4;H302,- oral: ATE = 1670 mg/kg bw
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Section 4. First-aid measures

4.1 Description of first aid measures

Inhalation: Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

Eye exposure: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Skin exposure: IF ON SKIN: Wash with plenty of soap and water.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.





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6.4 Reference to other sections:

Also refer to sections 8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.3 Specific end use(s):

Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits: Not Applicable

8.2 Exposure Controls

Eye / Skin Protection

Wear protective gloves/eye protection/face protection

Respiratory Protection

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State/Colour:

Odour:

Not determined





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Boiling point or initial boiling point and boiling Not determined

range:

Flammability: Not determined
Lower and upper explosion limit: Not determined

Flash point: > 93 °C

Auto-ignition temperature:

Decomposition temperature:

PH:

Not determined

value):

Vapour pressure:

Density and/or relative density:

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

9.2 Other information: None available

Section 10. Stability and reactivity

10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

10.2 Chemical stability:

Good stability under normal storage conditions.

10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

10.4 Conditions to avoid:

Avoid extreme heat.

10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

10.6 Hazardous decomposition products:

Not expected.

Section 11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity: Based on available data the classification criteria are not met.

Acute Toxicity Oral 2650 mg/kg Acute Toxicity Dermal 2500 mg/kg





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Acute Toxicity Inhalation Not Available

Skin corrosion/irritation:Based on available data the classification criteria are not met.

Serious eye damage/irritation: Eye Damage / Irritation Category 2
Respiratory or skin sensitisation: Sensitization - Skin Category 1B

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

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Aspiration hazard: Aspiration Hazard Category 1

Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	L <mark>D50/AT</mark> E O <mark>ral (mg/kg</mark>)	L <mark>D</mark> 50/ATE Derm <mark>a</mark> l (mg/kg)	LC50/ATE Inhalation	LC50 Route
Eugenyl acetate	93-28-7	<mark>202-2</mark> 35-6	1 <mark>670</mark>	Not available	Not available	Not available

Refer to Sections 2 and 3 for additional information.

11.2 Information on other hazards

Not Applicable

Section 12. Ecological information

12.1 Toxicity:Not available12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 Mobility in soil:Not available

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties: Not Applicable **12.7 Other adverse effects:** Not available

Section 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

_	14.2 UN Proper Shipping Name:		14.4 Packing
number:		Transport	Group:
		hazard class	
		(es):	





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UN Model Regulations	Not classified	-	-	-	-
IMDG	Not classified	-//	-	-	-
ADR,RID,ADN	Not classified	-	-	-	-
ICAO TI	Not classified	-	 -	-	-

14.5 Environmental hazards: Not environmentally hazardous for transport

14.6 Special precautions for user: None additional

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not classified

Section 15. Regulatory information

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

Water Hazard Class (WGK): 1

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

Section 16. Other information

Concentration % Limits: EDI 2=13.64% SS 1=1.36% AH 1=55.56%

Total Fractional Values: EDI 2=7.33 SS 1=73.30 AH 1=1.80

Key to revisions:

SECTION 3: Composition/information on ingredients

Key to abbreviations:

Abbreviation	Meaning		
Acute Tox. 4	Acute Toxicity - Oral Category 4		
Asp. Tox 1	Aspiration Hazard Category 1		
Eye Irrit. 2	Eye Damage / Irritation Category 2		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
P261	Avoid breathing vapour or dust.		
P264	Wash hands and other contacted skin thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P272	Contaminated work clothing should not be allowed out of the workplace.		
P280	Wear protective gloves/eye protection/face protection.		





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P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.		
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.		
P302/352	IF ON SKIN: Wash with plenty of soap and water.		
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P330	Rinse mouth.		
P331	Do not induce vomiting.		
P333/313	If skin irritation or rash occurs: Get medical advice/attention.		
P337/313	If eye irritation persists: Get medical advice/attention.		
P363	Wash contaminated clothing before reuse.		
P405	Store locked up.		
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.		
Skin Sens. 1B	Sensitization - Skin Category 1B		

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.

