Material Safety Data Sheet
MSDS

Section 1: Identification					
1.1 Product Identification					
Product name	Clove Bud, essential oil			Product number	E1024
Biological definition	Eugenia Caryophyllus Bud Oil is an essential oil steam-distilled from the dried flower buds of the Clove, Syzygium Aromaticum, syn. Eugenia Caryophyllus, Myrtaceae.				
INCI Name	Eugenia Caryophyllus Bud Oil				
Trade name	-				
Organic	Yes	CAS	8000-34-8	EC	284-638-7
1.2 Area of use					
Area of use	This substance is used in the following products: washing & cleaning products, biocides (e.g. disinfectants), air care products, polishes and waxes, perfumes and fragrances and				
Avoid to use	See section 2.				
1.3 Details of the supplier of the safety data sheet					
Company Address	Opella AB Lundavägen 1 247 50 Dalby		(+46) 08-12151215		info@opella.se www.opella.se
1.4 Emergency contacts					
Contact	**Jonas Persson**		(+46) 08-12151215		

Section 2: Hazards Identification	
2.1 Classification of the substance or mixture	
EG 1272/2008 (CLP)	Asp. Tox 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sen. 1
2.2 Label elements	
GHS Label	 - - GHS07 GHS08 - -
Signal word	Danger
Hazard statement	H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/… P331 Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water/… P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P501 Dispose of contents/container to …
Supplementary precautionary statements	-

2.3 Other hazards	
Adverse physo-chemical properties	Combustible but should not self-ignite.
Adverse effects on human health	Skin contact may cause irritation/sensitization.

Section 3: Composition of Ingredients

3.1 Substances

	Identification	Volym %	EC number	CAS number	Classification CLP
	Eugenol	<87%	202-589-1	97-53-0	Asp Tox. 1 - H304; Skin Sens. 1B - H317; Eye Irrit. 2 - H319
	Hydrocarbons	<15%			Acute Tox. 4 - H302; Acute Tox. 4 - H312
	Eugenyl Acetate	<5%			No data

3.2 Mixtures

	Identification	Volym %	CLP	Not in use	Not in use	Not in use
	-	-	-	-	-	-

Section 4: First Aid Measures

4.1 Descriptions of first aid measures

General information	See categories below.
Inhalation	Get medical attention immediately. Remove from exposure site to fresh air, keep at rest, and obtain medical attention.
Ingestion	Rinse mouth with water and obtain medical attention. Do not induce vomiting.
Skin contact	Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if irritation persists.
Eye contact	Flush immediately with water. Contact physician if symptoms persist.
PPE for assisting person	-

4.2 Most important symptoms & effects

	-

4.3 Identification of any immediate medical or special treatement required

	-

Section 5: Fire Fighting Measures	
5.1 Extinguishing material	
Use	CO_2, chemical powder or foam.
Do not use	H_2O
5.2 Special hazards arising from the substance or mixture	
	Burning produces irritating, toxic and obnoxious fumes.
5.3 Advice for fire-fighters	
	Wear appropiate protective clothing and positive-pressure self-contained breathing apparatus (SCBA).

Section 6: Accidential Release Measures	
6.1 Personal precautions	
	Ensure adquate ventilation of the working area and wear suitable protective equipment. Avoid contact with skin, eyes and clothing.
6.2 Environmental precautions	
	Do not discharge into drains, water courses or onto the ground. Dispose in line with applicable regulations.
6.3 Methods and material for containment and cleaning up	
	Contain spillage immediately by use of sand or inert powder. Avoid excessive inhalation of vapours. Dispose in line with applicable regulations.
6.4 References to other sections	
	See section 8 and 13.

Section 7: Handling and Storage	
7.1 Precautions for safe-handling	
	Handle in accordance with good hygiene and safety practice. Store in original packages in areas with adequate ventilation.
7.2 Conditions for safe storage, including any incompatibilities	
	Keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from light. Maintain limited contact with oxygen.
7.3 Specific end use	
	N/A

Section 8: Exposure Controls/Personal Protection	
8.1 Control parameters	
	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
8.2 Exposure controls	
Suitable technical controls	Use areas with adequate ventilations.
Eye protection	 Use eye protection / face protection
Hand protection	 Use protective gloves
Respiratory equipment	Use areas with adequate ventilations.
Hygiene measures	Wash hands with soap and water after handling of material.

Section 9: Physical and Chemical Properties	
9.1 Physical and chemical properties	
Appearance	Yellow - dark yellow
Odour	Spicy, warm
PH	-
Melting point	-
Boiling point	-
Flash point	120ºC
Relative density	1,027 - 1,065 @ 20ºC
Solubility in water	Insoluble in water.
9.2 Other information	
	-

Section 10: Stability and Reactivity	
10.1 Reactivity	
	No hazardous reaction if stored and handled as prescribed.
10.2 Chemical stability	
	Stable under normal storage conditions.
10.3 Possibility if hazardous reactions	
	No.
10.4 Conditions to avoid	
	Storage at high temperatures. Do not store above 25ºC.
10.5 Incompatible materials	
	Strong oxidising substances.
10.6 Hazardous decomposition products	
	Under fire conditions the product will produce a mixture of irritating fumes, smoke and carbon monoxide.

Section 11: Toxicological Information	
11.1 Toxological effects	
Acute toxicity - oral	No data
Acute toxicity - dermal	No data
Acute toxicity - inhalation	No data
Respiratory or skin sensitivity	H315 Causes skin irritation (Skin Irrit. 2)
Eye damage or irritation	H319 Causes serious eye irritation (Eye Irrit. 2)
Germ cell mutagenicity	No data
Carcinogenicity	No data
Reproductive toxicity	No data
STOT - single exposure	No data
STOT - repeated exposure	No data
Other information	H304 May be fatal if swallowed and enters airways (Asp. Tox. 1)

Section 12: Ecological Information	
12.1 Toxicity	
	No data
12.2 Presistence and degradability	
	This material is considered readily biodegradable, therefore does not fulfil the criteria for persistence.
12.3 Bio- accumulative potential	
	Bio- accumulation potential.
12.4 Mobility in soil	
	This material is considered readily biodegradable, therefore simulation tests in surface water, sediment and soil are not required in accordance with column 2 of REACH Annex IX.
12.5 Results of PBT and VPVB assessment	
	This substance does not meet the PBT/vPVB criteria of REACH, Annex XIII.
12.6 Other adverse effects	
	Do not allow product to enter streams, sewers or other waterways.

Section 13: Disposal Considerations	
13.1 Waste treatments methods	
	Always recover spilled product. Discard waste material with authorized waste mangement services. Act in accordance with applicable regulations.

Section 14: Transportation Information	
Transport information	Environmental Hazardous Substance Liquid NOS
UN-nummer	UN 3082
Transport hazard class	Class 9, ID 90
Packing group	Pk Gp III
Environmental hazards	See section 2 and 12.
Special precautions	-

Section 15: Regulatory Information	
15.1 Product specific safety, health and environmental regulations	
EU directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.
Statuatory instruments	-
Approved code of practice	-
Other EU directives	Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.
15.2 Chemical safety assessment	
	-

Section 16: Other Information	
16.1 Abbreviations & acronyms	
INCI	International Nomeclature of Cosmetic Ingredients
CAS	Chemical Abstract Service. Identifieringsnummer för kemiska ämnen.
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
STOT	Specific Target Organ Toxicity
EINECS	European Inventory of Existing Commercial Chemical Substances
CLP	CLP EU regulation (Classification, labelling and packaging)
VOC	Volatile Organic Compounds. Flyktiga organiska ämnen.
16.2 Disclaimer	
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16.3 Document revision	

	Date	Change description
	2021-03-01	Created