Material Safety Data Sheet: Cardomom Essential Oil

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name	Cardamom Essen	itial Oil			
Biological Definition		Elettaria Cardamomum Seed Oil is the volatile oil obtained from the dried ripe seeds of <i>Elettaria cardamomum, Zingiberaceae</i> .			
INCI Name	Elettaria Cardam	omum Seed C	Dil		
Synonyms & Trade Names	-				
CAS-No 8000-66-6 / 85940-32-5 EC No / 288-922-1 EINECS No / 288-922-1		- / 288-922-1			
1.2 Relative identified	1.2 Relative identified uses of the substance or mixture and uses advised against				
No additional data	No additional data available.				
1.3 Details of the supplier of the safety data sheet					
NTM UK LTD, 69	NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR				
1.4 Emergency Tel. No	D.	+44(0)1603	610883		

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The Full Text for all Hazard Statements is displayed in Section 16.

Classification (EC 1272/2008)

Physical and Chemical Hazards: Flammable Liquid, Hazard Category 3 H226, Flammable liquid and vapour.

Human health: Skin Corrosion / Irritation Category 2 H315, Causes skin irritation; Eye Damage / Irritation Category 2 H319, Causes serious eye irritation; Sensitization - Skin Category 1 H317, May cause an allergic skin reaction; Aspiration Hazard Category 1 H304, May be fatal if swallowed and enters airways.

Environment: Hazardous to the Aquatic Environment - Long-term Hazard Category 2; H411, Toxic to aquatic life with long lasting effects.

2.2 Labe	el Element	:S			
Label in acco	ordance wi [.]	th (EC) No 127	2/2008		
G	HS02	GHS07	GHS08	GHS09	
	\sim				
				₩ a	
	<u>e</u>	\mathbf{i}			
Signal Word		•	Danger.		
Contains			-		
Hazard State	ements				
H226	H226, Flammable liquid and vapour.				
H304	, May be fa	atal if swallowe	d and enters airw	/ays.	
H315	, Causes sk	in irritation.			
H317	, May caus	e an allergic ski	n reaction.		
H319	H319, Causes serious eye irritation.				
H411	H411, Toxic to aquatic life with long lasting effects.				

Precautionary Statements

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking. P233, Keep container tightly closed. P240, Ground/bond container and receiving equipment. P241, Use explosion-proof electrical, ventilating and lighting equipment. P242, Use only non-sparking tools. P243, Take precautionary measures against static discharge. 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. P273, Avoid release to the environment. P280, Wear protective gloves/eye protection/face protection. P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P362, Take off contaminated clothing and wash before reuse. P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction. P391, Collect spillage. P403/235, Store in a well-ventilated place. Keep cool. P405, Store locked up. P501, Dispose of contents/container to approved disposal site, in accordance with local regulations. **Supplementary Precautionary Statements** None

2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
<u> </u>	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture	S
44	4.0% alpha-Terpineol acetateCAS-No: 80-26-2 EC No: 201-265-7
CI	lassification (EC 1272/2008):
32	2.0% Eucalyptol CAS-No: 470-82-6 EC No: 207-431-5
CI	lassification (EC 1272/2008) FL 3-SS 1B;H226-H317,-
8.	0% Linalyl acetate CAS-No: 115-95-7 EC No: 204-116-4
CI	lassification (EC 1272/2008) SCI 2-EDI 2;H315-H319,-
5.	0% Linalool CAS-No: 78-70-6 EC No: 201-134-4
CI	lassification (EC 1272/2008) SCI 2-EDI 2-SS 1B;H315- H317-H319,-
3.	5% d-LimoneneCAS-No: 5989-27-5 EC No: 227-813-5
CI	lassification (EC 1272/2008) FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304- H315-H317-
	410,-
3.	0% alpha-Terpineol CAS-No: 98-55-5 EC No: 202-680-6
C	lassification (EC 1272/2008) SCI 2-EDI 2;H315-H319,-
	0% Myrcene CAS-No: 123-35-3 EC No: 24-622-5
	lassification (EC 1272/2008) FL 3-SCI 2-EDI 2-AH 1; H226-H304-H315-H319,-
	5% alpha-PineneCAS-No: 80-56-8 EC No: 201-291-9
	lassification (EC 1272/2008) FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304- H315-H317-
	410,-
	0% Geraniol CAS-No: 106-24-1 EC No: 203-377-1
	lassification (EC 1272/2008) SCI 2-EDI 1-SS 1;H315- H317-H318,-
	5% Citral CAS-No: 5392-40-5 EC No: 226-394-6
	ssification (EC 1272/2008) SCI 2-EDI 2-SS 1B;H315- H317-H319,-
	5% Nerolidol CAS-No: 7212-44-4 EC No: 230-597-5
	lassification (EC 1272/2008) EDI 2-EH A1-EH C1;H319- H410-
	0% Terpinolene CAS-No: 586-62-9 EC No: 209-578-0
	lassification (EC 1272/2008) SS 1B-AH 1-EH A1-EH C1; H304-H317-H410,-
	0% beta-PineneCAS-No: 127-91-3 EC No: 204-872-5
	lassification (EC 1272/2008) FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226-H304- H315-H317-
H	410,-

04. FIRST AID MEASURES

4.1	Description of first aid measures		
Inhalation	Move the exposed person to fresh air at once. G	et medical attention.	
Ingestion	Immediately call a POISON CENTER or doctor/p	hysician.	
Skin	Remove/take off immediately all contaminated of	lothing. Rinse skin with water/shower.	
Eye	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to		
Contact	do. Continue rinsing.		
4.2	Most important symptoms and effects, both act	ite and delayed	
	May be fatal if swallowed and enters airways.		
4.3	Indication of any immediate medical attention a	nd special treatment needed	
	None expected, see Section 4.1 for further information.		
05. FIRE-FI	GHTING MEASURES		

5.1 Extinguishing Media Do not use a direct stream of water to extinguish. Use: Powder. Carbon dioxide (CO2). Foam 5.2 Special hazards arising from the product In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for firefighters

In case of insufficient ventilation, wear suitable respiratory equipment.

06. 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
	Do not discharge into drains, water courses or onto the ground.
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.
6.4	Reference to other sections
	See sections 8 and 13.

07. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Keep away from heat, sparks, open flames and hot surfaces No smoking.
7.2	Conditions for safe storage, including any incompatibilities
	Ground/bond container and receiving 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.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control para	Control parameters		
Workplace ex	xposure limits: Not Applicable.		
8.2 Exposure cor	Exposure controls		
Protective Equipmen	t		
Process Conditions	Provide eyewash station.		
Engineering Measures	Provide adequate ventilation.		
Respiratory Equipment	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.		
Hand Protection	Use suitable protective gloves if risk of skin contact.		
Eye Protection	Wear protective gloves/eye protection/face protection.		
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.		
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.		
Personal Protection	Use personal protection according to Directive 89/686/EEC.		
Skin Protection	Wear apron or protective clothing in case of splashes.		
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.		

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information	9.1 Information on basic physical and chemical properties		
Appearance	Mobile liquid colourless to pale yellow.		
Colour	Colourless to pale yellow.		
Odour	Characteristic.		
Relative Density	0.915 – 0.950 @ 20°C		
Flash Point (°C)	57.0		
Refractive Index	1.460 - 1.470 @ 20°C		
Melting Point (°C)	No additional data available.		
Boiling Point (°C)	No additional data available.		
Vapour Pressure	No additional data available.		
Solubility in	Insoluble		
Water @20°C			
Auto-ignition	No additional data available.		
temperature (°C)			

9.2 Other information No additional data available.

10. STABILITY AND REACTIVITY

10.1	Reactivity
	No additional data available.
10.2	Chemical stability
	Stable under the recommended handling and storage conditions.
10.3	Possible hazardous reactions
	No additional data available.
10.4	Conditions to Avoid
	Avoid heat, sparks and open flames.
10.5	Incompatible materials
	Materials To Avoid:
	Strong acids, alkali or oxidising agents.
10.6	Hazardous Decomposition Products
	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and
	dioxide and nitrogen fumes and oxides.

11. TOXOLOGICAL INFORMATION

11.1 Information on tox	11.1 Information on toxicological effects			
Acute Toxicity	There is no data available on this product. It must be considered and handled and should be dealt with the highest possible caution.			
Skin corrosion / irritation	No additional data available.			
Serious eye damage / irritation	No additional data available.			
Respiratory or skin sensitisation	No additional data available.			
Germ Cell Mutagenicity	No additional data available.			
Carcinogenicity	No additional data available.			
Reproductive toxicity	No additional data available.			
STOT-single exposure	No additional data available.			
STOT-repeated	No additional data available.			
exposure				
Photo-toxicity	No additional data available.			
Other Information	No additional data available.			

12. ECOLOGICAL INFORMATION

12.1	Toxicity	
	No additional data available.	
12.2	Persistence & degradability	
	Degradability: No additional data available.	
12.3	Bioaccumulation Potential	
	Bioaccumulative potential: No data available on bioaccumulation.	
12.4	Mobility in soil	
	No additional data available.	
12.5	Results of PBT and vPvB Assessment	
	No additional data available.	
12.6	Other adverse effects	
	No additional data available.	

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1	UN number		
	UN No. Road	None.	
	UN No. SEA	None.	
	UN No. AIR	None.	
14.2	UN proper shipping name		
	None		
14.3	Transport hazard class(es)		
	ADR/RID/ADN Class:	9 Miscellaneous dangerous substances and articles.	
	ICAO Class/Division:	9	
	IMDG Class:	9	
	Transport Labels		
	MISCELLANEOUS DANGEROUS GOODS 9		
14.4	Packing group		
	IMDG Packing group		
	ICAO Packing group		
14.5	Environmental hazards		
		nvironmentally Hazardous Substance/Marine Pollutant	
14.6	Special precautions for user		
	EMS F-A-S-F		
	Hazard No. (ADR) 9		
	Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.		
	Tunnel Restriction Code (E)		
14.7	Transport in bulk accordin No additional data availab	ng to Annex II of MARPOL73/78 and the IBC code	

15. REGULATORY INFORMATION

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

Statutory Instruments
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).
Guidance Notes
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).
EU Legislation
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, amending Directive 1999/45/EC and repealing Council
Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council
Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and
2000/21/EC, including amendments.15.2Chemical safety assessment
No additional information available.

16. OTHER INFORMATION

Hazard and/or	H316 Causes mild skin irritation.
Precautionary	
Statements in Full	H315 Causes skin irritation.
	H226 Flammable liquid and vapour.
	H302 Harmful if swallowed.
	H412 Harmful to aquatic life with long lasting effects.
	H402 Harmful to aquatic life.
	H304 May be fatal if swallowed and enters airways.
	H303 May be harmful if swallowed.
	H317 May cause an allergic skin reaction.
	H351 Suspected of causing cancer.
	H341 Suspected of causing genetic defects.
	H411 Toxic to aquatic life with long lasting effects.
	H410 Very toxic to aquatic life with long lasting effects.
	H400nVery toxic to aquatic life.
Other Information	None.
Revision Date	20/10/2015
Reason for revision	Updated New Format SDS.
Rev No/Repl, SDS	02
Generated	

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.