



MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Cinnamon Essential Oil			
Biological Definition		"Cinnamon Leaf Oil Ceylon". Cinnamomum Zeylanicum Leaf Oil is the volatile oil obtained from the leaves of the Ceylon Cinnamon, <i>Cinnamomum zeylanicum</i> , Lauraceae			
INCI Name		Cinnamomum Zeylanicum Leaf Oil.			
Synonyms & Trade Names		Cinnamon Oil			
CAS-No	84649-98-9	EC No.	283-479-0	EINECS No.	283-479-0
1.2 Relative identified uses of the substance or mixture and uses advised against					
No additional data available.					
1.3 Details of the supplier of the safety data sheet					
NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR					
1.4 Emergency Tel. No.			+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)	
<p>Eye irritation, Category 2 (Eye Irrit. 2, H319). Skin sensitisation, Category 1 (Skin Sens. 1, H317). Germ cell mutagenicity, Category 2 (Muta. 2, H341). Carcinogenicity, Category 1B (Carc. 1B, H350). Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412). This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.</p>	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
<p>GHS07 GHS08</p>  	
Signal Word	Danger.
Contains	EC 283-479-0 Cinnamon Leaf Oil
Hazard Statements	
<p>H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H412 Harmful to aquatic life with long lasting effects.</p>	

Precautionary Statements	
P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.	
Supplementary Precautionary Statements	
None	

2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

100.0% Cinnamomum Zeylanicum Leaf Oil Cas. No: 84649-98-9EC No: 283-479-0
 Classification (1272/2008):GHS07, GHS08, Dgr
 Skin Sens. 1, H317, Eye Irrit. 2, H319, Muta. 2, H341
 Carc. 1A, H350, Aquatic Chronic 3, H412

04. FIRST AID MEASURES

4.1	Description of first aid measures
Inhalation	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. Do not induce vomiting.
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
4.2	Most important symptoms and effects, both acute and delayed
Symptoms: Inhalation: can cause slight headache, rhinorrhea, cough shortness of breath, chest pains, bronchial spasm Eye contact: can cause bloodshot eyes Skin contact: can cause slight skin rash. Ingestion: Nausea, vomiting and diarrhoea can result from ingestion	
4.3	Indication of any immediate medical attention and special treatment needed
No additional data available.	
Inhalation: Monitor for signs of respiratory distress. Eye contact: Monitor for irritation, pain or swelling. Skin contact: Monitor signs of skin sensitisation. Ingestion: Monitor signs of aspiration particularly following loss of consciousness.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	Non Flammable
5.2 Special hazards arising from the product	A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed: carbon monoxide (CO) and carbon dioxide (CO ₂)
5.3 Advice for firefighters	Protective equipment for fire-fighters: Wear Self-contained breathing apparatus. Wear chemical protective clothing.


06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Wear protective clothing as described in Section 8 of this safety data sheet.
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.	Absorb with inert, non-combustible, inorganic absorbent material, sweep up and remove to an approved disposal container. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.
6.4 Reference to other sections	No additional data available.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid spilling, skin and eye contact. Adopt best manual handling considerations when handling, carrying and dispensing.
7.2 Conditions for safe storage, including any incompatibilities	Container: to be stored in stainless steel drums, preferably under inert atmosphere (nitrogen), protected from day-light take note: the container used during transportation must be considered only as a temporary container and it must not be considered in any case adequate for medium or long term warehousing. Conditions: stored in a dry, aerated place, away from any heat source and ignition source. Temperature: from 5°C and 30°C.
7.3 Specific end use(s)	No additional data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	No additional data available.
8.2 Exposure controls	Protective Equipment
	
Process Conditions	Safety shower and eye bath.
Engineering Measures	Design work processes and engineering controls to minimise aerosol / mist formation, release of liquid and vapour.

	Where appropriate provide adequate ventilation suitably protected to minimise release to the environment to ensure a safe working atmosphere consistent with the OEL's in section 8.1 above.
Respiratory Equipment	Protection not required if good ventilation is maintained. Use inhalation protection in poorly ventilated areas.
Hand Protection	Use suitable protective gloves if risk of skin contact.
Eye Protection	Wear approved safety goggles.
Other Protection	Wear rubber apron.
Hygiene Measures	Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
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 on basic physical and chemical properties	
Appearance	Liquid
Colour	Pale yellow to yellow.
Odour	Characteristic – spicy, sweet.
Relative Density @ 20°C	1.030 - 1.050
Flash Point (°C)	88
Refractive Index @ 20°C	1.529 - 1.537
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	380

9.2 Other information	
No additional data available.	

10. STABILITY AND REACTIVITY

10.1 Reactivity	
No additional data available	
10.2 Chemical stability	
No additional data available	
10.3 Possible hazardous reactions	
No additional data available	
10.4 Conditions to Avoid	
Conditions leading to thermal decomposition either by combustion, electrostatic charge	
10.5 Incompatible materials	
No additional data available	
10.6 Hazardous Decomposition Products	
In case of combustion: carbon monoxide (CO), carbon dioxide (CO ₂) may be released	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	CINNAMON LEAF OIL (CAS: 84649-98-9) Oral route:DL50 = 2650 mg/kg Species : Rat (recommended by the CLP) Dermal route: DL50 > 5000 mg/kg Species : Rabbit (recommended by the CLP)
Skin corrosion / irritation	May cause an allergic reaction by skin contact.
Serious eye damage / irritation	May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.
Respiratory or skin sensitisation	No additional data available..
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	
	Harmful to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways. Substances classified as category 1 acute toxicity: Crustacean toxicity: Duration of exposure : 48 h CE50 = 1.61 mg/l Species: Daphnia sp. OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
12.2 Persistence & degradability	
	No additional data available.
12.3 Bioaccumulation Potential	
	No additional data available.
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	
	Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Do not pour into drains or waterways. <u>Waste:</u> Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment. <u>Soiled packaging:</u> Empty container completely. Keep label(s) on container. Give to a certified disposal contractor. .

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	Not bound by transport regulations.
UN No. SEA	Not bound by transport regulations.
UN No. AIR	Not bound by transport regulations.
14.2 UN proper shipping name	
	Not bound by transport regulations.
14.3 Transport hazard class(es)	
	Not bound by transport regulations.
14.4 Packing group	
	Not bound by transport regulations
14.5 Environmental hazards	
	Not bound by transport regulations
14.6 Special precautions for user	
	Not bound by transport regulations
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	
	No additional data available.

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.
15.2 Chemical safety assessment
No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H412 Harmful to aquatic life with long lasting effects.
Other Information	None.

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.