

MATERIAL SAFETY DATA SHEET

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

1.1	1.1 Product Identifier					
Product Name			Lemon Verbena Essential Oil			
Biolog	Biological Definition			The volatile oil steam distilled from the leaves of Thymus hiemalis.		
INCI N	lame		Thymus Hiemalis Leaf Oil (Not an official INCI name)			
Synon	yms 8	& Trade Names	Lemon \	Verbena Oil		
CAS-N	CAS-No E		C No.		EINECS No.	
1.2	1.2 Relative identified uses of the substance or mixture and uses advised against			d uses advised against		
	No additional data available.					
1.3	3 Details of the supplier of the safety data sheet					
	NTM UK LTD, 69 Bethel Street, Norwich, Norfolk, United Kingdom NR2 1NR			lingdom NR2 1NR		
1.4	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)

Physical and Chemical Hazards: Not classified.

H318 Causes serious eye damage

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.. 2 - H351

Environment: H411 Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Label in accordance with (EC) No 1272/2008







Contains	Geraniol
Signal Word	Danger

Hazard Statements

H318 Causes serious eye damage

H315 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects



Precautionary Statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P501: Dispose of contents in accordance with local, state or national legislation.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing. And wash it before reuse.

P302+P352: IF ON SKIN: Wash with plenty of water.

P273: Avoid release to the environment.

P391: Collect spillage.

Supplementary Precautionary Statements

P264: Wash hands and exposed skin thoroughly after handling.

P332+P313: If skin irritation occurs: Get medical advice/attention.

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

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

≤70.2% Citral CAS-No.: 5392-40-5 EC No.: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315; Skin Sens. 1 - H317, Eye Irrit. 2 - H319

≤7.59% Geraniol CAS-No.: 106-24-1EC No.: 203-377-1

Classification (EC 1272/2008) Skin Irrit. 2 – H315, Skin Sens. 1 - H317, Eye Dam. 1 – H318

≤ 4.00 Citronellal CAS-No.: 106-23-0 EC No.: 203-376-6

Classification (EC 1272/2008) Skin Irrit. 2 – H315, Skin Sens. 1 – H317, Eye Irrit. 2 – H319, Aquatic Chronic 2 – H411

≤ 3.8% d-Limonene CAS-No.: 5989-27-5 EC No.: 227-813-5

Classification (EC 1272/2008) Flam. Liq. 3 - H226; Asp. Tox. 1 - H304; Skin Irrit. 2 - H315; Skin Sens. 1 -

H317; Aquatic Acute 1 – H400, Aquatic Chronic 1 - H410

≤ 0.25% Citronellol CAS-No.: 106-22-9 EC No.: 203-375-0

Classification (EC 1272/2008) Skin Irrit. 2 – H315, Skin Sens. 1B - H317, Eye Irrit. 2 – H319

≤ **0.33% Linalool** CAS-No.: 78-70-6 EC No.: 201-134-4

Classification (EC 1272/2008) Skin Irrit. 2 – H315

≤ 0.11% alpha - Pinene CAS-No.: 80-56-8 EC No.: 201-291-9

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1A – H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 – H410

≤ **0.17% beta- Pinene** CAS-No.: 127-91-3 EC No.: 204-872-5

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1A – H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 – H410

≤ 0.16% Sabinene CAS-No.: 3387-41-5 EC No.: 222-212-4

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 – H304

≤ 0.14% Myrcene CAS-No.: 123-35-3 EC No.: 204-622-5

Revision Date: 26/04/18

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 – H304, Skin Irrit. 2 - H315, Eye Irrit. 2 – H315, Eye Irrit. 2 – H319

≤ 0.01% Methyl Eugenol CAS-No.: 93-15-2 EC No.: 202-223-0

Classification (EC 1272/2008) Acute Tox. 4 – H302, Muta. 2 H341, Carc. 2 – H351



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		
	No additional data available.		
4.3	Indication of any immediate medical attention and special treatment needed		
	No additional data available.		

05. FIRE-FIGHTING MEASURES

5.1	Extinguishing Media
	Powder. Carbon dioxide (CO2), Foam
5.2	Special hazards arising from the product
	Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed.
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
	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original
	container.
	Keep away from heat, sparks and open flame
7.3	Specific end use(s)
	No additional data available

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08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Unregulated. No exposure limits noted for ingredient.

8.2 Exposure controls

Protective Equipment





Process Conditions	Safety shower and eye bath.
Engineering Measures	Provide adequate ventilation.
	Respiratory equipment.
	Self-contained breathing apparatus.
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	Mobile Liquid	
Colour	Pale yellow to yellow.	
Odour	Characteristic Fresh, lemony, sweet and fruity	
Relative Density	0.882 - 0.892	
Flash Point (°C)	>63	
Refractive Index	1.480 - 1.490	
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)	No additional data available.	

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: PVC
10.6	Hazardous Decomposition Products
	No decomposition if used as directed.

11. TOXOLOGICAL INFORMATION

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	Causes skin irritation	
Serious eye damage / irritation	Causes serious eye damage	
Respiratory or skin sensitisation	May cause an allergic skin reaction.	
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 exposure	No additional data available.	
Photo-toxicity	No additional data available.	
Other Information	No additional data available.	

12. ECOLOGICAL INFORMATION

12.1	Toxicity		
	Toxic to aquatic life with long lasting effects.		
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		
	Do not allow product to enter streams, sewers or other waterways		

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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	1308	
	UN No. SEA	1308	
	UN No. AIR	1308	
14.2	UN proper shipping name		
	Environmentally Hazardous Substance Liquid N.O.S.		
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		



14.4 Packing group

7.7	i acking group	
	ADR/RID/ADN Packing group	
	IMDG Packing group	III
	ICAO Packing group	III

14.5 Environmental hazards

Environmentally 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 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	H226 Flammable liquid and vapour.
•	· ·
Statements in Full	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage
	H319 Causes serious eye irritation.
	H341 Suspected of causing genetic defects.
	H351 Suspected of causing cancer
	H400 Very toxic to aquatic life with long lasting effects.
	H410 Very toxic to aquatic life with long lasting effects.
	H411 Toxic 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.