





Hughes & Company

Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Lavender oil 40/42 Type.			
Biological Definition		Blended mixture of lavender oils (<i>Lavandula angustifolia</i> L.), and other <i>Lavandula</i> spp. and fractions thereof. The ester content is maintained at 40-42% by adjustment with Linalyl acetate.			
INCI Name		Lavandula Angustifolia Herb Oil.			
Synonyms & Trade Names		-			
CAS-No	90063-37-9	EC No.	289-995-2	EINECS No.	289-995-2
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					
Hughes & Co Ltd, 10 Market Street – Suite 512, Camana Bay, Grand Cayman, KY1-9006 Cayman Islands. EU Address – The Ingredient Warehouse, Station Road, Uppingham, Rutland. LE15 9TX. Email – sds@hughescompany.co.uk.					
1.4 Emergency Tel. No.		+ 44 (0) 1572 820267			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
The Full Text for all Hazard Statements displayed in Section 16.	
Classification (EC 1272/2008)	
Skin irritation, Category 2 (Skin Irrit. 2, H315). Eye irritation, Category 2 (Eye Irrit. 2, H319). Skin sensitisation, Category 1B (Skin Sens. 1B, H317). Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411). This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS07 GHS09  	
Signal Word	Warning
Contains	601-029-00-7 (R)-P-MENTHA-1,8-DIENE EC 207-431-5 EUCALYPTOL.
Hazard Statements	
H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.	

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Company Registration Number 00284125

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

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

Supplementary Precautionary Statements

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.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

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

25-50% Linalool CAS-No.: 78-70-6 EC No.: 201-134-4

Classification (EC 1272/2008) Acute Tox. 5 - H303, Skin Irrit. 2 - H315, Aquatic Acute 3 - H402

30-50% Linalyl Acetate CAS: 115-95-7, EINECS: 204-116-4

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

2.5-10% (R)-P-Mentha-1,8-Diene CAS: 5989-27-5, EC: 227-813-5

Classification (EC 1272/2008) Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400
M Acute = 1, Aquatic Chronic 1, H410 M Chronic = 1

<2.5% Eucalyptol CAS-No.: 4602-84-0 EC No.: 225-004-1

Classification (EC 1272/2008) Flam. Liq. 3, H226; Skin Sens. 1B, H317

<2.5% Camphor CAS: 76-22-2, EC: 200-945-0

Classification (EC 1272/2008) Acute Tox. 4, H332, Acute Tox. 4, H302, Flam. Sol. 2, H228, STOT SE 2, H371

04. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air.

Ingestion

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

Skin Contact

Remove contaminated clothing and wash the skin thoroughly with soap and water or a

	<p>recognised cleaner.</p> <p>Watch out for any remaining product between skin and clothing, watches, shoes, etc.</p> <p>In the event of an allergic reaction, seek medical attention.</p> <p>If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.</p>
Eye Contact	<p>Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.</p> <p>If there is any redness, pain or visual impairment, consult an ophthalmologist.</p>
4.2 Most important symptoms and effects, both acute and delayed	
No further relevant information 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	
No additional data available.	
5.2 Special hazards arising from the product	
<p>A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.</p> <p>Do not breathe in smoke.</p> <p>In the event of a fire, the following may be formed:</p> <ul style="list-style-type: none"> - carbon monoxide (CO) - carbon dioxide (CO₂) 	
5.3 Advice for firefighters	
No additional data available.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	
<p>Consult the safety measures listed under headings 7 and 8.</p> <p>For non first aid worker</p> <p>Avoid any contact with the skin and eyes.</p> <p>For first aid worker</p> <p>First aid workers will be equipped with suitable personal protective equipment (See section 8).</p>	
6.2 Environmental Precautions	
<p>Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.</p> <p>Prevent any material from entering drains or waterways.</p>	
6.3 Methods and material for containment and cleaning up.	
Clean preferably with a detergent, do not use solvents.	
6.4 Reference to other sections	
No additional data available.	

07. HANDLING AND STORAGE

7.1 Precautions for safe handling	
<p>Always wash hands after handling.</p> <p>Remove and wash contaminated clothing before re-using.</p> <p>Fire prevention:</p> <p>Prevent access by unauthorised personnel.</p>	

Recommended equipment and procedures:
 For personal protection, see section 8.
 Observe precautions stated on label and also industrial safety regulations.
 Avoid skin and eye contact with this mixture.
 Prohibited equipment and procedures:
 No smoking, eating or drinking in areas where the mixture is used.

7.2 Conditions for safe storage, including any incompatibilities

Packaging
 Always keep in packaging made of an identical material to the original.

7.3 Specific end use(s)

No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm	3 ppm	-	-	-

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
76-22-2	2	12	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
76-22-2	2 ppm	3 ppm	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

LINALOOL (CAS: 78-70-6)

Final use: Workers.

Exposure method: Dermal contact.
 Potential health effects: Short term systemic effects.
 DNEL : 5 mg/kg body weight/day

Exposure method: Dermal contact.
 Potential health effects: Short term local effects.
 DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.
 Potential health effects: Long term systemic effects.
 DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.
 Potential health effects: Long term local effects.
 DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.
 Potential health effects: Short term systemic effects.
 DNEL : 5 mg/kg body weight/day

Exposure method: Dermal contact.
 Potential health effects: Short term local effects.

DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL : 15 mg of substance/cm²

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL : 16.5 mg of substance/m³

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 2.8 mg of substance/m³

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL : 16.5 mg of substance/m³

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 2.8 mg of substance/m³

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Short term systemic effects.

DNEL : 1.2 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL : 0.2 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects: Short term systemic effects.

DNEL : 1.2 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL : 0.2 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Short term systemic effects.

DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Short term local effects.

DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL : 1.25 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.

Potential health effects: Short term systemic effects.

DNEL : 2.5 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Short term local effects.

DNEL : 15 mg of substance/cm²

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL : 1.25 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL : 15 mg of substance/cm²

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL : 4.1 mg of substance/m³

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 0.7 mg of substance/m³

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL : 4.1 mg of substance/m³

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL : 0.7 mg of substance/m³

**Predicted no effect concentration (PNEC):
LINALOOL (CAS: 78-70-6)**

Environmental compartment: Soil.

PNEC : 0.327 mg/kg

Environmental compartment: Soil.

PNEC : 0.327 mg/kg

Environmental compartment: Fresh water.

PNEC : 0.2 mg/l

Environmental compartment: Fresh water.

PNEC : 0.2 mg/l

Environmental compartment: Sea water.

PNEC : 0.02 mg/l

Environmental compartment: Sea water.

PNEC : 0.02 mg/l

Environmental compartment: Intermittent waste water.

PNEC : 2 mg/l

Environmental compartment: Intermittent waste water.

PNEC : 2 mg/l

Environmental compartment: Fresh water sediment.

PNEC : 2.22 mg/kg

Environmental compartment: Fresh water sediment.

PNEC : 2.22 mg/kg

Environmental compartment: Marine sediment.

PNEC : 0.222 mg/kg

Environmental compartment: Marine sediment.

PNEC : 0.222 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC : 10 mg/l

Environmental compartment: Waste water treatment plant.

PNEC : 10 mg/l

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station. Wash hands before breaks and at the end of work.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	Not required.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Recommended properties : - Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes Before handling, wear safety goggles with protective sides in accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly..
Other Protection	Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Avoid contact with the skin. 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

Hughes & Co Ltd, Suite 512, 10 Market Street, Camana Bay, Grand Cayman, KY1-9006, Cayman Islands.

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Appearance	Liquid
Colour	Pale yellow
Odour	Characteristic
Relative Density	Approx. 0.885 @ 20°C
Flash Point (°C)	71°C
Refractive Index	Approx. 1.460 @ 20°C
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	
This mixture is stable under the recommended handling and storage conditions in section 7.	
10.3 Possible hazardous reactions	
No additional data available.	
10.4 Conditions to Avoid	
No additional data available.	
10.5 Incompatible materials	
No additional data available.	
10.6 Hazardous Decomposition Products	
The thermal decomposition may release/form: - carbon monoxide (CO) - carbon dioxide (CO ₂).	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Acute toxicity: CAMPHOR L(XN68)=10% X (CAS: 76-22-2) Oral route : LD50 = 1500 mg/kg Inhalation route: LC50 = 1.5 mg/l EUCALYPTOL (CAS: 470-82-6) Oral route: LD50 = 2480 mg/kg LINALOOL (CAS: 78-70-6) Oral route: LD50 = 2790 mg/kg.
Skin corrosion / irritation	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up

	to four hours.
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	May cause an allergic reaction by skin contact.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	CAS 5989-27-5: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	May be fatal if swallowed and enters airways.
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
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
No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
<p>Do not pour into drains or waterways.</p> <p>Waste: 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.</p> <p>Soiled packaging: Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.</p>

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	3082
UN No. SEA	3082
UN No. AIR	3082

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.

14.3 Transport hazard class(es)

ADR/RID/ADN Class 9
 IMDG Class 9
 ICAO Class/Division 9

Transport Labels

**14.4 Packing group**

ADR/RID/ADN Packing group III
 IMDG Packing group III
 ICAO Packing group III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

**14.6 Special precautions for user**

ADR/RID

Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
9	M6	III	9	90	5 L	274 335 601	E1	3	E

IMDG

Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
9	-	III	5 L	F-A,S-F	274 335	E1

IATA

Class	2°Label	Pack gr.	Passager	Passager Cargo	Cargo	note	EQ
9	-	III	964	450 L 964	450 L	A97 / A158	E1
9	-	III	Y964	30 kg G -	-	A97 / A158	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
 For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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	H226 Flammable liquid and vapour. H228 Flammable solid. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H371 May cause damage to organs. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Other Information	None
Revision Date	07/02/2017
Reason for revision	Updated SDS format and additional supplier information.
Rev No/Repl, SDS Generated	03 replaces 02

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