

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 8/4/2020 Version: 1.0

1.1. Product identifier		
Product form Substance name EC-No. CAS-No. Product code	: Substance : SPEARMINT OIL : 283-656-2 : 84696-51-5 : 9077	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Main use category	: Industrial use	
1.2.2. Uses advised against Restrictions on use	: Ultimate consumer use	
1.3. Details of the supplier of the sa	fety data sheet	
Manufacturer/Supplier FROMA ESANS ve AROMA SANAYI TICA Orhangazi Mah.Isiso San. Sit. 5.Yol Sok.N 34538 Esenyurt-Istanbul-TR kalite@froma.com.tr Further information obtainable from: Qualit	0:23-25-27	
1.4. Emergency telephone number		
Emergency number (Mon - Fri, 08:30 - 18:30 GMT+3)	: +90 212 623 02 90	
SECTION 2: Hazards identificati	on	
2.1. Classification of the substance	or mixture	
Classification according to Regulation (Skin corrosion/irritation, Category 2 Skin sensitisation, Category 1 Hazardous to the aquatic environment — C Full text of H statements : see section 16	H315 H317	
Adverse physicochemical, human healt Causes skin irritation. May cause an allerg	h and environmental effects ic skin reaction. Toxic to aquatic life with long lasting effects.	
2.2. Label elements		
Labelling according to Regulation (EC) Hazard pictograms (CLP)		
Signal word (CLP) Hazard statements (CLP)	 GHS07 GHS09 Warning H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects. 	

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Precautionary statements (CLP)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name CAS-No. EC-No.	: Spearmint oil : 84696-51-5 : 283-656-2		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Spearmint oil	(CAS-No.) 84696-51-5 (EC-No.) 283-656-2	100	
I-Carvone	(CAS-No.) 6485-40-1 (EC-No.) 229-352-5 (EC Index-No.) 606-148-00-8	≥ 50 - < 80	Skin Sens. 1B, H317
d-Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	≥ 10 – < 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Myrcene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	≥ 1 – < 2.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
beta-Caryophyllene	(CAS-No.) 87-44-5 (EC-No.) 201-746-1	≥ 1 – < 2.5	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aqua <mark>tic Chro</mark> nic 4, H413
Eucalyptol	(CAS-No.) 470-82-6 (EC-No.) 207-431-5	≥ 1 – < 2.5	Flam. Liq. 3, H226 Skin <mark>Sens. 1B, H317</mark>
I-Menthone	(CAS-No.) 14073-97-3 (EC-No.) 237-926-1	≥ 0.1 – < 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317
beta-Pinene	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	≥ 0.1 – < 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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alpha-Pinene	(CAS-No.) 80-56-8 (EC-No.) 201-291-9	≥ 0.1 – < 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2	≥ 0.1 – < 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
cis-beta-Ocimene	(CAS-No.) 3338-55-4 (EC-No.) 222-081-3	≥ 0.1 – < 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. If the victim is unconscious Place the affected person in the recovery position. Allow affected person to breathe fresh air. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash off with soap and plenty of water. Rinse skin with water/shower.
First-aid measures after eye contact First-aid measures after ingestion	 In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
4.3. Indication of any immediate medical at	ttention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Dry powder. Carbon dioxide. For large fire: Water spray. Foam.Strong water jet.
5.2. Special hazards arising from the subst	tance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released. fume.
5.3. Advice for firefighters	
Firefighting instructions	: Move containers away from the fire area if this can be done without risk. Keep upwind. Use water spray or fog for cooling exposed containers.
Protection during firefighting	 Wear fire/flame resistant/retardant clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Evacuate unnecessary personnel.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

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SECTION 6: Accidental release measures			
6.1. Personal processions, protective,	equipment and emergency procedures		
o. 1. Personal precautions, protective	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate area.		
6.2. Environmental precautions			

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up				
For containment Methods for cleaning up	 Collect spillage. Take up liquid spill into absorbent material. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ensure adequate ventilation. 			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections				

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
	 Ensure good ventilation of the work station. Avoid contact wit personal protective equipment. Avoid breathing dust/fume/ga aerosol formation or splashes. Wash contaminated clothing before reuse. Contaminated wor allowed out of the workplace. Do not eat, drink or smoke whe wash hands after handling the product. 	s/mist/vapours/spray. Prevent
7.2. Conditions for safe storage, including an	ny incompatibilities	
Storage conditions :	Store in a well-ventilated place. Keep cool. Keep only in origin tightly closed.	nal container. Keep container
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal	protection	
8.1. Control parameters		

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves. Protective goggles.

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Hand protection:

Chemically resistant protective gloves. Consult supplier for specific recommendations. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

tightly fitting safety goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Do not eat, drink or smoke during use. Take off immediately all contaminated clothing. Always wash hands after handling the product. Avoid contact with skin and eyes.

Other information:

Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Odour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties	 Liquid No data available 61 °C No data available
Explosive properties Oxidising properties Explosive limits	

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal conditions of use, storage and transport.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal conditions of use.	
10.4. Conditions to avoid	
None under recommended storage and handling conditions (see section 7).	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological inform	nation	
11.1. Information on toxicological effe	ects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Not classifiedNot classifiedNot classified	
Spearmint oil (84696-51-5)		
LD50 oral	4900 mg/kg bodyweight	
	· · · ·	
I-Carvone (6485-40-1)		
LD50 dermal	3800 mg/kg bodyweight	
ATE CLP (dermal)	3800 mg/kg bodyweight	
Eucalyptol (470-82-6)		
LD50 oral	2480 mg/kg bodyweight	
ATE CLP (oral)	2480 mg/kg bodyweight	
I-Menthone (14073-97-3)		
LD50 oral	2500 mg/kg bodyweight	
ATE CLP (oral)	2500 mg/kg bodyweight	
alpha-Pinene (80-56-8)		
LD50 oral	500 mg/kg bodyweight	
ATE CLP (oral)	500 mg/kg bodyweight	

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Linalool (78-70-6)		
LD50 oral	2790 mg/kg bodyweight	E
ATE CLP (oral)	2790 mg/kg bodyweight	

cis-beta-Ocimene (3338-55-4)		
LD50 oral	5000 mg/kg bodyweight	
ATE CLP (oral)	5000 mg/kg bodyweight	
Skin corrosion/irritation :	Causes skin irritation.	
	Not classified	
, .	May cause an allergic skin reaction.	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short-term (acute)	Toxic to aquatic life with long lasting effects.Not classified
Hazardous to the aquatic environment, long-term (chronic) Not rapidly degradable	: Toxic to aquatic life with long lasting effects.
Additional information	: Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Avoid release to the environment.

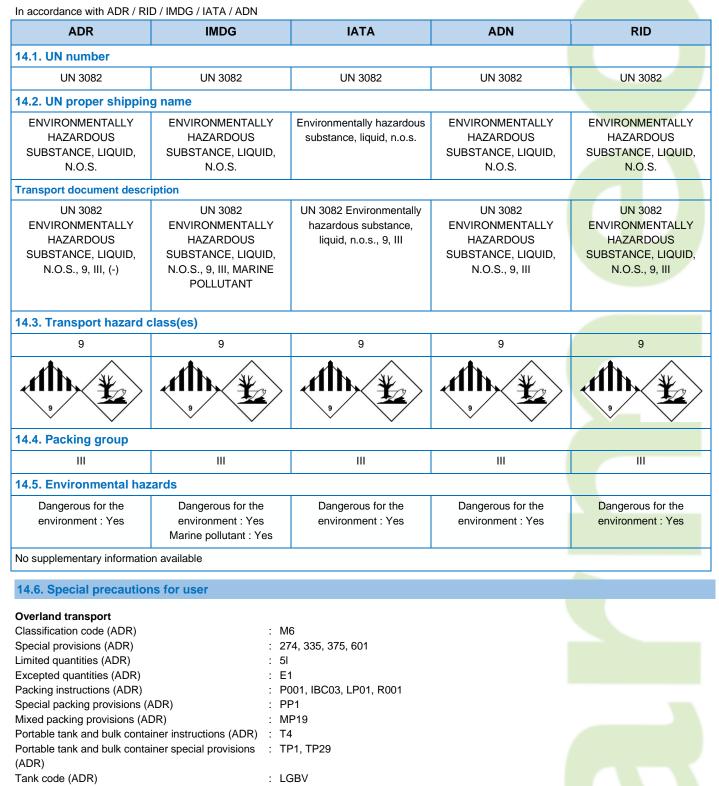
12.2. Persistence and degradability		
No additional information available		
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessmen	t	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste) Waste treatment methods	Disposal must be done according to official regulations.Dispose of contents/container in accordance with licensed c	ollector's sorting instructions.

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- Sewage disposal recommendations
- Product/Packaging disposal recommendations
- Prevent entry to sewers and public waters.Do not dispose of with domestic waste.

SECTION 14: Transport information



Vehicle for tank carriage

Transport category (ADR)

Special provisions for carriage - Packages (ADR)

: AT

: V12

: 3

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Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13	
Hazard identification number (Kemler No.)	: 90	
Orange plates		
	· 90	
	3082	
Tunnel restriction code (ADR)	: -	
Transport by sea		
Special provisions (IMDG)	: 274, 335, 969	
Limited quantities (IMDG)	: 5 L	
Excepted quantities (IMDG)	: E1	
Packing instructions (IMDG)	: LP01, P001	
Special packing provisions (IMDG)	: PP1	
IBC packing instructions (IMDG)	: IBC03	
Tank instructions (IMDG)	: T4	
Tank special provisions (IMDG)	: TP2, TP29	
EmS-No. (Fire)	: F-A	
EmS-No. (Spillage)	: S-F	
Stowage category (IMDG)	: A	
	. 7	
Air transport	F (
PCA Excepted quantities (IATA)	: E1	
PCA Limited quantities (IATA)	: Y964	
PCA limited quantity max net quantity (IATA)	: 30kgG	
PCA packing instructions (IATA)	: 964	
PCA max net quantity (IATA)	: 450L	
CAO packing instructions (IATA)	: 964	
CAO max net quantity (IATA)	: 450L	
Special provisions (IATA)	: A97, A158, A197	
ERG code (IATA)	: 9L	
Inland waterway transport		
Classification code (ADN)	: M6	
Special provisions (ADN)	: 274, 335, 375, 601	
Limited quantities (ADN)	: 5L	
Excepted quantities (ADN)	: E1	
Carriage permitted (ADN)	: Т	
Equipment required (ADN)	: PP	
Number of blue cones/lights (ADN)	: 0	
Rail transport		
Classification code (RID)	: M6	
Special provisions (RID)	274, 335, 375, 601	
Limited quantities (RID)	: 5L	
Excepted quantities (RID)	: E1	
Packing instructions (RID)	: P001, IBC03, LP01, R001	
Special packing provisions (RID)	: PP1	
Mixed packing provisions (RID)	: MP19	
Portable tank and bulk container instructions (RID)	: T4	
Portable tank and bulk container special provisions	: TP1, TP29	
(RID)		
Tank codes for RID tanks (RID)	: LGBV	
Transport category (RID)	: 3	
Special provisions for carriage – Packages (RID)	: W12	
	: W12 : CW13, CW31	
and handling (RID)	· CE8	
Colis express (express parcels) (RID)	: CE8 : 90	
Hazard identification number (RID)	. 30	
14.7. Transport in bulk according to Annex	II of Marpol and the IBC Code	
, and the second s		

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Spearmint oil is not on the REACH Candidate List

Spearmint oil is not on the REACH Annex XIV List

Spearmint oil is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Spearmint oil is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations and acronyn	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit

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vPvB	Very Persistent and Very Bioaccumulative
Data sources :	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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Supplier's
Training advice :	safety documents. ECHA (European Chemicals Agency). Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-state	ements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
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.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	

SDS EU (REACH Annex II)

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