Safety Data Sheet

SPEARMINT CHIN EO 80 K FG

Safety Data Sheet dated: 02 March 2021 - version 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Identification of the substance:

Menta spicata Essential Oil

Trade name: SPEARMINT CHIN EO 80 K FG

Trade code: 100910063 CAS number: 84696-51-5 EC number: 946-253-9

Registration Number 01-2120744216-58-0022

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Raw Material for use in flavours, fragrances and similar products Uses advised against: Not for personal use at this concentration nor in this format

1.3. Details of the supplier of the safety data sheet

1.4. Emergency telephone number

SECTION 2: Hazards identification







2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Sens. 1 May cause an allergic skin reaction.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 Causes skin irritation.

Asp. Tox. 1 May be fatal if swallowed and enters airways. Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

P272 Contaminated work clothing should not be allowed out of the workplace.

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P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/... P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific measures (see supplemental first aid instructions on this label or in the SDS). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/container in accordance with all applicable regulations.

Special Provisions:

EUH208 Contains (R)-p-Mentha-1,8-diene. May produce an allergic reaction.

EUH208 Contains Trans-2-hexenal. May produce an allergic reaction.

Contains

Carvone

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
80-90 %	Carvone	CAS:99-49-0 EC:202-759-5	Skin Sens. 1B, H317	
5-7 %	(R)-p-Mentha-1,8-diene	CAS:5989-27-5 EC:227-813-5 Index:601-029-00-7	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1, H226, H315, H317, H400, H410, M-Chronic:1, M- Acute:1	01-2119529223-47-XXXX
0.1-0.25 %	Trans-2-hexenal	CAS:6728-26-3 EC:229-778-1	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Muta. 2; Aquatic Chronic 2, H302, H315, H319, H341, H411; Skin Sens. 1A, H317	01-2120770494-48-XXXX

3.2. Mixtures

Not determined

SECTION 4: First aid measures

4.1. Description of first aid measures

Never give anything by mouth to an unconscious person.

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

If symptoms persist consult doctor.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

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4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion or combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water. Do not discharge into drains.

Move undamaged containers from immediate hazard area but only if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Closed recipients, away from the light, in a cool, dry place (optimum storage temperature: 10°C- 25°C). Heat up to 40°C and shake before using

Incompatible materials:

None in particular.

Instructions regarding storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

Product Name:

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Long Term	Long Term	Short Term	Short Term	Behaviour
			mg/m3	ppm	mg/m3	ppm	

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28 (R)-p-Mentha-1,8-diene MAK Germany

> **NATIONAL** Germany 112 20 **NATIONAL** Finland 140 25 280 50

NATIONAL Germany 28 5

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not determined

Hygienic and Technical measures

Not determined

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Appearance and colour: Mobile liquid Colorless to Yellowish

Odour: Fresh Green Spearmint Sweet Odour threshold: Not determined

pH: Not determined

Melting point / freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: 66 °C (151 °F) Evaporation rate: Not determined

Upper/lower flammability or explosive limits: Not determined

Vapour density: Not determined Vapour pressure: Not determined Relative density: 0.95 g/cm3 Solubility in water: Not determined Solubility in oil: Not determined

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not determined Oxidizing properties: Not determined Solid/gas flammability: Not determined

Volatile Organic compounds - VOCs = Not Available

9.2. Other information

Substance Groups relevant properties Not determined

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Miscibility: Not determined Conductivity: Not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Data not available.

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Data not available.

10.5. Incompatible materials

Data not available.

10.6. Hazardous decomposition products

Data not available.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315)

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation The product is classified: Skin Sens. 1(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard The product is classified: Asp. Tox. 1(H304)

Toxicological information on main components of the mixture:

Carvone a) acute toxicity LD50 Oral Rat = 1640 mg/kg

(R)-p-Mentha-1,8-diene a) acute toxicity LD50 Oral Rat = 5200 mg/kg

LD50 Skin Rabbit > 5 g/kg

Trans-2-hexenal a) acute toxicity ATE - Oral: 780 mg/kg bw

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the components

Component Ident. Numb. Ecotox Data

(R)-p-Mentha-1,8-diene CAS: 5989-27-5 a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 0.619 mg/L 96h

- EINECS: 227- EPA - 0.619 - 0.796 flow-through

813-5 - INDEX: 601-029-00-7

a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 35 mg/L 96h EPA

12.2. Persistence and degradability

Not Available

12.3. Bioaccumulative potential

Not Available

12.4. Mobility in soil

Not Available

12.5. Results of PBT and vPvB assessment

No PBT Ingredients are present

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

German Water Hazard Class Class 2: hazardous for water.

SECTION 14: Transport information

14.1. UN number

3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene - farnesol) IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene - farnesol) IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((R)-p-Mentha-1,8-diene - farnesol)

14.3. Transport hazard class(es)

ADR-Class: 9
IATA-Class: 9
IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III IATA-Packing group: III IMDG-Packing group: III

14.5. Environmental hazards

Most important toxic component: Limonene

Toxic ingredients quantity: 0.10 Very toxic ingredients quantity: 7.02

Marine pollutant: Yes
Environmental Pollutant: Yes

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: No ADR-Label: 9

ADR - Hazard identification number: 90 ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA):

IATA-Passenger Aircraft: 964 IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisions: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274 335 969

IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-A, S-F
IMDG-MFAG: N/A

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Available

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP)

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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
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Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (LO) II. 2013/1221 (ATI 7 CLI

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) 2015/830

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: None

Provisions related to directive EU 2012/18 (Seveso III):

Not Available

German Water Hazard Class.

Class 2: hazardous for water.

SVHC Substances:

Code

None > 0.1%

Description

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

SECTION 16: Other information

Code	Description
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.
H341	Suspected of causing genetic defects.
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.
Code	Hazard class and hazard category Descri

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation Classification procedure (EC) Nr. 1272/2008

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3.4.2/1 Calculation method 4.1/C2 Calculation method 3.2/2 Calculation method 3.10/1 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

In December 2003, the National Institute for Occupational Safety and Health

(NIOSH) published an Alert on preventing lung disease in workers who use or make flavorings. NIOSH Publication Number 2004-110. In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a

report entitled "Respiratory Safety in the Flavoring Manufacturing

Workplace." Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

Both these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The contents in these reports are generally applicable to the use of any material in the workplace, and it is recommended that they be reviewed.

Advice on training: the user should be trained to handle the mixture / substances with respect to:

Possible hazards. See section 2.

Appropriate personal protective clothing. See section 8.

Appropriate engineering controls including the use of extraction equipment. See section 8.

First aid measures. See section 4.

Fire-fighting measures. See section 5.

Handling spillages. See section 13.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

ACGIH: American Conference of Governmental Industrial Hygienists

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity estimate of the mixture

BCF: Biological Concentration Factor BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand

CAV: Poison Center CE: European Community

CLP: Classification, Labeling, Packaging.

COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report DMEL: Derived Minimal Effect Level

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

ES: Exposure Scenario

IARC: International Agency for Research on Cancer

IC50: half maximal inhibitory concentration

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

Product Name:

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

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PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PSG: Passengers

vPvB: Very Persistent, Very Bioaccumulative.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

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