# **Safety Data Sheet ORIGANUM OIL**

Safety Data Sheet dated: 07 January 2021 - version 5

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

#### 1.1. Product identifier

Identification of the substance:

Origanum vulgare Essential Oil Trade name: ORIGANUM OIL Trade code: 100900119 CAS number: 84012-24-8 EC number: 947-697-6

Registration Number 01-2120785598-31-0004

#### 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)

Acute Tox. 4 Harmful if swallowed.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1 May cause an allergic skin reaction.

Repr. 2 Suspected of damaging fertility or the unborn child.

May be fatal if swallowed and enters airways. Asp. Tox. 1 Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2 Causes skin irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

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

# **Pictograms and Signal Words**



## **Hazard statements**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H361 Suspected of damaging fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects. **Precautionary statements** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash contact areas thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. P273 EU13\$P280 P280 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/... IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell. P301+P312 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. 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. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up.

Dispose of contents/container in accordance with all applicable regulations.

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

Causes serious eye damage.

None

P501

H318

## 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
60-70 %	carvacrol	CAS:499-75-2 EC:207-889-6	Acute Tox. 4; Skin Corr. 1B; Aquatic Chronic 2, H302, H314, H411, H411
5-7 %	gamma-terpinene	CAS:99-85-4 EC:202-794-6	Flam. Liq. 3; Repr. 2; Aquatic Chronic 2, H226, H361, H411

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5-7 %	1-Methyl-4-isopropylbenzene	CAS:99-87-6 EC:202-796-7	Aquatic Chronic 2; Repr. 2; Flam. Liq. 3; Asp. Tox. 1, H411, H361, H226, H304
1-3 %	alpha-pinene	CAS:80-56-8 EC:201-291-9	Flam. Liq. 3; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1, H226, H302, H304, H315, H317, H410, M-Chronic:1
1-3 %	alpha-terpinene	CAS:99-86-5 EC:202-795-1	Flam. Liq. 3; Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1B, H226, H302, H319, H317
1-3 %	myrcene	CAS:123-35-3 EC:204-622-5	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 2, H226, H304, H315, H319, H400, H411, M- Chronic:1, M-Acute:1
1-3 %	Linalool	CAS:78-70-6 EC:201-134-4	Skin Sens. 1B; Skin Irrit. 2; Eye Irrit. 2, H317, H315, H319
1-3 %	Thymol	CAS:89-83-8 EC:201-944-8	Acute Tox. 4; Skin Corr. 1B; Aquatic Chronic 2, H302, H314, H411
0.5-1 %	(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

#### 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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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:

Give nothing to eat or drink.

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

Erythema

## 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.

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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.

Exercise the greatest care when handling or opening the container.

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 between 10°C and 25°C). 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**

#### 8.1. Control parameters

## **Community Occupational Exposure Limits (OEL)**

Component	OEL Type	Country	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour
1-Methyl-4- isopropylbenzene	NATIONAL	Russian Federation	10				
alpha-pinene	ACGIH			20			
	NATIONAL	Spain	113	20			
	NATIONAL	Portugal		20			
	NATIONAL	Belgium		20			
(R)-p-Mentha-1,8-diene	MAK	Germany	28	5			
	NATIONAL	Germany			112	20	
	NATIONAL	Finland	140	25	280	50	
	NATIONAL	Germany	28	5			

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## 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:

Use adequate protective respiratory equipment.

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, Yellowish to brownish

Odour: Fresh Woody Aromatic
Odour threshold: Not determined

pH: Not determined

Melting point / freezing point: Not determined Initial boiling point and boiling range: Not determined

Flash point: 67 °C (153 °F) Evaporation rate: Not determined

Upper/lower flammability or explosive limits: Not determined

Vapour density: Not determined Vapour pressure: Not determined Relative density: Not determined 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

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.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

# Toxicological Information of the Preparation

a) acute toxicity The product is classified: Acute Tox. 4(H302)

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b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315) c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318) 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 The product is classified: Repr. 2(H361) g) reproductive toxicity 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:

carvacrol	a) acute toxicity	ATE - Oral : 810 mg/kg bw LD50 Oral Rat = 810 mg/kg
gamma-terpinene	a) acute toxicity	LD50 Oral Rat = 3650 mg/kg
1-Methyl-4-isopropylbenzene	a) acute toxicity	LC50 Inhalation Rat > 9.7 mg/l 5h LD50 Skin Rabbit > 5000 mg/kg LD50 Oral Rat = 4750 mg/kg
alpha-pinene	a) acute toxicity	ATE - Oral : 500 mg/kg bw LD50 Oral Rat = 3700 mg/kg LD50 Skin Rat > 5000 mg/kg
alpha-terpinene	a) acute toxicity	ATE - Oral : 1680 mg/kg bw LD50 Oral Rat = 1680 mg/kg
myrcene	a) acute toxicity	LD50 Oral Rat > 5 g/kg LD50 Skin Rabbit > 5 g/kg
Linalool	a) acute toxicity	LD50 Oral Rat = 2790 mg/kg LC50 Inhalation Mouse = 3.2 mg/l 1h
Thymol	a) acute toxicity	ATE - Oral : 980 mg/kg bw LD50 Oral Rat = 980 mg/kg LD50 Skin Rat > 2000 mg/kg
(R)-p-Mentha-1,8-diene	a) acute toxicity	LD50 Oral Rat = 5200 mg/kg LD50 Skin Rabbit > 5 g/kg

## **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

Quantity	Component	Ident. Numb.	Ecotox Data
1-3 %	alpha-pinene	CAS: 80-56-8 - EINECS: 201- 291-9	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = $0.28$ mg/L 96h IUCLID - static

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a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 41 mg/L

48h IUCLID

1-3 % CAS: 78-70-6 -Linalool a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 20 mg/L

48h IUCLID EINECS: 201-134-4

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus =

88.3 mg/L 96h IUCLID

1-3 % Thymol CAS: 89-83-8 a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio = 5 mg/L 96h

EINECS: 201-IUCLID - static

944-8

a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 3.2 mg/L

96h EPA - static

0.5-1 % (R)-p-Mentha-1,8-diene CAS: 5989-27-5 a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 0.619

- EINECS: 227mg/L 96h 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**

## 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.

Water Hazard Class Class 3: extremely hazardous.

## **SECTION 14: Transport information**

## 14.1. UN number

## 14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carvacrol - alpha-pinene) IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carvacrol - alpha-pinene) IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (carvacrol - alpha-pinene)

# 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

Toxic Component most present: carvacrol

Toxic Ingredients Qty: 88.00 High Toxicity Ingredients Qty: 6.80

Marine pollutant: Yes Environmental Pollutant: Yes

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14.6. Special precautions for user
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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 Provisioning: A97 A158 A197

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 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)

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

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 (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 3: extremely hazardous.

SVHC Substances:

None > 0.1%

## 15.2. Chemical safety assessment

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

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## **SECTION 16: Other information**

Code D	Description
H226 FI	lammable liquid and vapour.
H302 H	Harmful if swallowed.
H304 M	May be fatal if swallowed and enters airways.
H314 C	Causes severe skin burns and eye damage.
H315 C	Causes skin irritation.
H317 M	May cause an allergic skin reaction.
H318 C	Causes serious eye damage.
H319 C	Causes serious eye irritation.
H361 S	Suspected of damaging fertility or the unborn child.
H400 V	ery toxic to aquatic life.
H410 V	ery toxic to aquatic life with long lasting effects.
H411 To	oxic to aquatic life with long lasting effects.

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
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.7/2	Repr. 2	Reproductive toxicity, 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

3.1/4/Oral	Calculation method
3.3/1	Calculation method
3.4.2/1	Calculation method
3.7/2	Calculation method
3.10/1	Calculation method
4.1/C2	Calculation method
3.2/2	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.

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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

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

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

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
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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