

Safety Data Sheet
according to Regulation (EC) No. 1907/2006
(REACH)

hertz & selck

Trade name : Top Flavour Tobacco (065.643)
Revision date : 01.01.2026
Print date : 09.03.2026

Version (Revision) : 2.1.0 (2.0.0)

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

1.1 Product identifier

Top Flavour Tobacco (065.643)

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

PC 0.79 - Flavouring agents , Industrial uses

1.3 Details of the supplier of the safety data sheet

Supplier

Hertz & Selck GmbH & Co.

Street : Tarpenring 23

Postal code/City : 22419 Hamburg

Telephone : +49 40 432576-0

E-mail (competent person) : safety@hertz-selck.de

1.4 Emergency telephone number

+49 40 4325760 (6 – 18 h, local time)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

BENZYL ALCOHOL ; CAS No. : 100-51-6

trans-Anethole ; CAS No. : 4180-23-8

Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

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

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

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

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

P337+P313 If eye irritation persists: Get medical advice/attention.

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

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2.3 Other hazards

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Rum Jamaica 78 Vol%

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38 ; EC No. : 202-859-9 ; CAS No. : 100-51-6

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

Specific Conc. Limits : (ATE - oral : 1200 mg/kg)

Vanillin ; REACH No. : 01-2119516040-60 ; EC No. : 204-465-2 ; CAS No. : 121-33-5

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

trans-Anethole ; REACH No. : 01-2119979097-22 ; EC No. : 224-052-0 ; CAS No. : 4180-23-8

Weight fraction : $\geq 0,1 - < 0,5$ %

Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

2-PHENYLETHANOL ; REACH No. : 01-2119963921-31 ; EC No. : 200-456-2 ; CAS No. : 60-12-8

Weight fraction : $< 0,5$ %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Additional information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) , alcohol resistant foam , Extinguishing powder , Water mist .

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide

5.3 Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed.

Hints on joint storage

Storage class (TRGS 510) : 10

Further information on storage conditions

Keep away from sources of ignition - No smoking.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limit - RCP-method TRGS 900 (D)

Occupational exposure limit values

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type (country of origin) : TRGS 900 (D)

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Limit value : 5 ppm / 22 mg/m³
Peak limitation : 2(I)
Remark : H, Y
Version : 06.05.2025

DNEL-/PNEC-values

DNEL/DMEL

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 27 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 4 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 20 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 4 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Short-term
Limit value : 20 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 22 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 100 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 40 mg/kg bw/day

trans-Anethole ; CAS No. : 4180-23-8

Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 5,28 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 3,75 mg/kg bw/day
Limit value type : DMEL worker (systemic)
Exposure route : Inhalation

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Exposure frequency : Long-term
Limit value : 10,57 mg/m³
Limit value type : DMEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7,5 mg/kg bw/day

PNEC

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 1 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 2,3 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,1 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 5,27 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,527 mg/kg dw
Limit value type : PNEC (Soil)
Limit value : 0,456 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 39 mg/l

Vanillin ; CAS No. : 121-33-5

Limit value type : PNEC (Aquatic, freshwater)
Exposure time : Short-term
Limit value : 0,118 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure time : Short-term
Limit value : 0,0118 mg/l
Limit value type : PNEC (Sediment, freshwater)
Exposure time : Short-term
Limit value : 58,22 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Exposure time : Short-term
Limit value : 5,822 mg/kg dw
Limit value type : PNEC (Soil)
Exposure time : Short-term
Limit value : 11,54 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Exposure time : Short-term
Limit value : 10 mg/l

trans-Anethole ; CAS No. : 4180-23-8

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,021 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,0021 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,166 mg/kg soil dw
Limit value type : PNEC (Soil)
Limit value : 0,097 mg/kg soil dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 0,972 mg/l

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8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection



Eye glasses with side protection

Skin protection

Hand protection



Disposable gloves.

Suitable material : NBR (Nitrile rubber)

Recommended glove articles : Dermatril P , EN ISO 374

Body protection

Overall , lab coat

Recommended material : Natural fibres (e.g. cotton)

Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: insufficient ventilation , aerosol or mist formation.

General information

Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : brown

Odour : characteristic

Safety characteristics

Physical state :

Liquid

Melting point/freezing point : (1013 hPa)

No data available

Initial boiling point and boiling range : (1013 hPa) approx.

120 °C

Decomposition temperature : (1013 hPa)

No data available

Flash point :

63 °C

Auto-ignition temperature :

No data available

Lower explosion limit :

No data available

Upper explosion limit :

No data available

Vapour pressure : (50 °C)

No data available

Density : (20 °C)

1,045 - 1,065 g/cm³

Water solubility : (20 °C)

No data available

pH :

5,4

log P O/W :

No data available

Viscosity : (20 °C)

No data available

Kinematic viscosity : (40 °C)

No data available

Odour threshold :

No data available

Vapourisation rate :

No data available

Maximum VOC content (EC) :

77,6 Weight-%

Flammable solids : No data available.

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Flammable gases : No data available.

Explosive properties : No data available.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

There are no data available on the mixture itself.

10.2 Chemical stability

There are no data available on the mixture itself.

10.3 Possibility of hazardous reactions

There are no data available on the mixture itself.

10.4 Conditions to avoid

Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.

10.5 Incompatible materials

Strong acid , Strong alkali , Oxidizing agent.

10.6 Hazardous decomposition products

There are no data available on the mixture itself.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Frequently or prolonged contact with skin may cause dermal irritation. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	1200 mg/kg
Parameter :	LD50 (Vanillin ; CAS No. : 121-33-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	3300 mg/kg
Parameter :	LD50 (trans-Anethole ; CAS No. : 4180-23-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	3000 mg/kg
Parameter :	LD50 (2-PHENYLETHANOL ; CAS No. : 60-12-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	1603 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2000 mg/kg
Parameter :	LD50 (Vanillin ; CAS No. : 121-33-5)

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Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (trans-Anethole ; CAS No. : 4180-23-8)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg
Parameter : LD50 (2-PHENYLETHANOL ; CAS No. : 60-12-8)
Exposure route : Dermal
Species : Rabbit
Effective dose : 2535 mg/kg
Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Exposure route : Inhalation
Species : Rat
Effective dose : > 4,178 mg/l
Exposure time : 4 h
Method : OECD 403
Parameter : LC50 (trans-Anethole ; CAS No. : 4180-23-8)
Exposure route : Inhalation (dust/mist)
Species : Rat
Effective dose : 5,1 mg/l
Exposure time : 4 h
Method : OECD 403

Corrosion

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Rabbit
Result : Non-irritant
Method : OECD 404

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Rabbit
Result : Irritating to eyes
Method : OECD 405
Parameter : Serious eye damage/eye irritation (trans-Anethole ; CAS No. : 4180-23-8)
Species : Rabbit
Effective dose : 0,1 mL
Exposure time : 100 %
Result : Non-irritant
Method : OECD 405

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : NOEL(C) (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Mouse
Effective dose : 200 mg/kg bw/day
Exposure time : 24 month(s)
Result : Negative.
Method : OECD 453
Parameter : NOEL(C) (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Rat
Effective dose : 400 mg/kg bw/day
Exposure time : 24 month(s)

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Result : Negative.
Method : OECD 453

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Gene-mutations microorganisms (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Salmonella typhimurium
Result : Negative.
Method : OECD 471 (Ames test)

Genotoxicity

Parameter : Genotoxicity (trans-Anethole ; CAS No. : 4180-23-8)
Result : Negative.
Method : OECD 471 (Ames test)

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : NOAEL(C) (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Mouse
Result : Negative.
Method : OECD 474

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Pimephales promelas (fathead minnow)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 460 mg/l
Exposure time : 96 h

Parameter : LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 360 mg/l
Exposure time : 48 h

Chronic (long-term) fish toxicity

Parameter : NOEC (trans-Anethole ; CAS No. : 4180-23-8)
Species : Danio rerio (zebrafish)
Effective dose : 0,34 mg/l
Exposure time : 28 day(s)
Method : OECD 210

Acute (short-term) toxicity to aquatic invertebrates

Parameter : EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 230 mg/l
Exposure time : 48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (trans-Anethole ; CAS No. : 4180-23-8)
Species : Daphnia magna (Big water flea)
Effective dose : approx. 1,05 mg/l

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Exposure time : 21 day(s)
Method : OECD 211

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC0 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Scenedesmus quadricauda
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 640 mg/l
Exposure time : 96 h
Parameter : EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 770 mg/l
Exposure time : 72 h
Parameter : ErC50 (Vanillin ; CAS No. : 121-33-5)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 120 mg/l
Exposure time : 72 h
Parameter : EC50 (Vanillin ; CAS No. : 121-33-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 36,79 mg/l
Exposure time : 48 h

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 310 mg/l
Exposure time : 72 h

Toxicity to microorganisms

Parameter : EC10 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : 658 mg/l
Exposure time : 16 h
Parameter : EC50 (trans-Anethole ; CAS No. : 4180-23-8)
Species : Bacteria toxicity
Effective dose : 97,2 mg/l
Exposure time : 3 h
Method : OECD 209

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Evaluation parameter : Aerobic
Degradation rate : 92 - 96 %
Test duration : 14 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301C

12.3 Bioaccumulative potential

Parameter : Log KOW (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Value : 1,05
20 °C
Parameter : Log KOW (Vanillin ; CAS No. : 121-33-5)
Value : 1,17 - 1,21

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Parameter : 25 °C
Partition coefficient n-octanol /water (log P O/W) (trans-Anethole ; CAS No. : 4180-23-8)
Value : approx. 3,39
25 °C

There are no data available on the mixture itself.

12.4 Mobility in soil

There are no data available on the mixture itself.

Adsorption

Parameter : Log KOW (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Inoculum : Mobility in soil
Effective dose : 15,7
Parameter : Mobility in soil (Vanillin ; CAS No. : 121-33-5)
Effective dose : 1,644

12.5 Results of PBT and vPvB assessment

There are no data available on the mixture itself.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

National regulations

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Weight fraction (Number 5.2.7. III) : < 1 %

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Label elements

16.2 Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Arbeitsplatzgrenzwert (=occupational exposure limit)
ATE	Acute Toxicity Estimate
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS	Chemical Abstract Service
CLP	Classification, Labelling and Packaging of substances and mixtures
CMR	cancerogen, mutagen, reprotoxic
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EC	European Community
DNEL	Derived No-Effect Level
GHS	Globally Harmonized System
IATA	International Air Transport Association
IATA-DGR	IATA-Dangerous Goods Regulations
ICAO	International Civil Aviation Organization
ICAO-TI	Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG-Code	International Maritime Code for Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
LOEC	Lowest Observed Effect Concentration
LQ	Limited Quantity
MAK	Maximale Arbeitsplatz-Konzentration (=maximum allowable concentration)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships

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n.a.	not applicable
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
pOW	Partition coefficient
RAC	Risk Assessment Committee
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RCP	Representative Concentration Pathway
RID	Regulation on the International Carriage by Rail of Dangerous Goods
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
SVHC	Substance with Very High Concern
TLV	Threshold Limit Value
TRGS	Technische Regeln für Gefahrstoffe (= Technical Rules for Hazardous Substances)
TRK	Technische Richtkonzentration (= Technically Standard Concentration)
TWA	Time-weighted-average
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative
WGK	Water hazard class

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.