

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

Item number/ Trade name **11401-848-11**
 Version/ Issue date: **19 / 11/03/2023**

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

1.1 Product identifier

Item number/ Trade name fragrance composition
 11401-848-11
 Citronella - Nature-identical
 UFI GUJ0-N12H-N00N-FNJ1

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

General use Perfumes, fragrances, Formulation of fragranced products

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification
 Name bekro chemie GmbH & Co. KG
 Street/POB-No.: 1 Industriestrasse 104
 City D-66802 Ueberherrn
 Phone # +49 6836 9198 0
 Telefax # +49 6836 9198 10
 E-mail info@bekro.de

1.4 Emergency telephone number

Name Bekro Chemie GmbH (Mo - Thu 8.00 - 16.30, Fr 8.00 - 14.30)
 Phone # +49 6836 9198 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aquatic Acute 1; H400 Very toxic to aquatic life.
 Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.
 Eye Dam. 1; H318 Causes serious eye damage.
 Flam. Liq. 3; H226 Flammable liquid and vapour.
 Skin Irrit. 2; H315 Causes skin irritation.
 Skin Sens. 1; H317 May cause an allergic skin reaction.

2.2 Label elements



Signal word

Danger

Nature of Hazard

GHS02 Flame
 GHS07 Exclamation mark
 GHS05 Corrosion
 GHS09 Environment

Hazard statements

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

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Safety precautions

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting/###/ equipment.
 P242 Use only non-sparking tools.
 P243 Take action to prevent static discharges.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.
 P370+P378 In case of fire: Use Sand, Carbon dioxide, Powder to extinguish.
 P264 Wash affected areas thoroughly after handling.
 P321 Specific treatment (see instructions on this label).
 P362 Take off contaminated clothing.
 P302+P352 IF ON SKIN: Wash with plenty of water/soap.
 P332+P313 If skin irritation occurs: 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.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P363 Wash contaminated clothing before reuse.
 P501 Dispose of contents/container to hazardous waste.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P273 Avoid release to the environment.
 P391 Collect spillage.

Hazard components for labelling

Eugenol
 Carophyllin
 Alpha-Pinene
 Linalool
 Cineole
 p-Mentha-1,8-diene
 Neral
 Geranyl acetate
 Geranyl formate
 (R)-p-Mentha-1,8-diene
 Citronellal
 Geraniol
 Isopulegol
 P-Mentha-1,4(8)-diene
 Citral
 Pin-2(10)-ene
 Citronellol
 7-Methyl-3-methyleneocta-1,6-diene

Special provisions concerning the labelling of certain mixtures

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

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Hazardous ingredients

Eugenol: 0,1 % - 0,99 %

CAS-Nummer: 97-53-0

EINECS / ELINCS / NLP: 202-589-1

REACH-Registrierungsnr.: 01-2119971802-33

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Sens. 1B; H317

Carophyllin: 0,1 % - 0,99 %

CAS-Nummer: 87-44-5

EINECS / ELINCS / NLP: 201-746-1

REACH-Registrierungsnr.: 01-2120745237-53

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Asp. Tox. 1; H304 / Skin Sens. 1B; H317

Alpha-Pinen: 0,1 % - 0,99 %

CAS-Nummer: 80-56-8

EINECS / ELINCS / NLP: 201-291-9

REACH-Registrierungsnr.: 01-2119519223-49

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Acute Tox. 4; H302 / Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1 (M1); H410 / Asp. Tox. 1; H304 /

Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Linalool: 0,1 % - 0,99 %

CAS-Nummer: 78-70-6

EU-Indexnummer: 603-235-00-2

EINECS / ELINCS / NLP: 201-134-4

REACH-Registrierungsnr.: 01-2119474016-42

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Cineol: 0,1 % - 0,99 %

CAS-Nummer: 470-82-6

EINECS / ELINCS / NLP: 207-431-5

REACH-Registrierungsnr.: 01-2119967772-24

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Eye Irrit. 2; H319 / Flam. Liq. 3; H226 / Skin Sens. 1B; H317

(E)-3,7-dimethylocta-2,6-dienal: 0,1 % - 0,99 %

CAS-Nummer: 141-27-5

EINECS / ELINCS / NLP: 205-476-5

REACH-Registrierungsnr.: 01-2119911311-56

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

p-Mentha-1,8-dien: 0,1 % - 0,99 %

CAS-Nummer: 138-86-3

EU-Indexnummer: 601-029-00-7

EINECS / ELINCS / NLP: 205-341-0

REACH-Registrierungsnr.: 01-2120766421-57

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1 (M1); H410 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 /

Skin Sens. 1; H317

Neral: 0,1 % - 0,99 %

CAS-Nummer: 106-26-3

EINECS / ELINCS / NLP: 203-379-2

REACH-Registrierungsnr.: 01-2119924850-39

Einstufung gemäß EG-Verordnung 1272/2008 (CLP):

Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

Geranylacetat: 0,1 % - 0,99 %

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CAS-Nummer: 105-87-3
EINECS / ELINCS / NLP: 203-341-5
REACH-Registrierungsnr.: 01-2119973483-29
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Chronic 3; H412 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Geranylformiat: 0,1 % - 0,99 %
CAS-Nummer: 105-86-2
EINECS / ELINCS / NLP: 203-339-4
REACH-Registrierungsnr.: 01-2120139917-45
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Skin Sens. 1B; H317

(R)-p-Mentha-1,8-dien: 25 % - 49,99 %
CAS-Nummer: 5989-27-5
EU-Indexnummer: 601-096-00-2
EINECS / ELINCS / NLP: 227-813-5
REACH-Registrierungsnr.: 01-2119529223-47
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Acute 1 (M1); H400 / Aquatic Chronic 3; H412 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Citronellal: 10 % - 24,99 %
CAS-Nummer: 106-23-0
EINECS / ELINCS / NLP: 203-376-6
REACH-Registrierungsnr.: 01-2119474900-37
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

alpha-Terpineol: 3 % - 9,99 %
CAS-Nummer: 98-55-5
EINECS / ELINCS / NLP: 202-680-6
REACH-Registrierungsnr.: 01-2119980717-23
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315

Geraniol: 3 % - 9,99 %
CAS-Nummer: 106-24-1
EU-Indexnummer: 603-241-00-5
EINECS / ELINCS / NLP: 203-377-1
REACH-Registrierungsnr.: 01-2119552430-49
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Dam. 1; H318 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

Isopulegol: 3 % - 9,99 %
CAS-Nummer: 89-79-2
EINECS / ELINCS / NLP: 201-940-6
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Acute Tox. 4; H302 / Eye Irrit. 2; H319 / Skin Irrit. 2; H315

P-Mentha-1,4(8)-dien: 3 % - 9,99 %

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CAS-Nummer: 586-62-9
EINECS / ELINCS / NLP: 209-578-0
REACH-Registrierungsnr.: 01-2119982324-34
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1 (M1); H410 / Asp. Tox. 1; H304 / Skin Sens. 1B; H317

Citral: 3 % - 9,99 %
CAS-Nummer: 5392-40-5
EU-Indexnummer: 605-019-00-3
EINECS / ELINCS / NLP: 226-394-6
REACH-Registrierungsnr.: 01-2119462829-23
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

Pin-2(10)-en: 3 % - 9,99 %
CAS-Nummer: 127-91-3
EINECS / ELINCS / NLP: 204-872-5
REACH-Registrierungsnr.: 01-2119519230-54
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1; H410 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

Citronellol: 3 % - 9,99 %
CAS-Nummer: 106-22-9
EINECS / ELINCS / NLP: 203-375-0
REACH-Registrierungsnr.: 01-2119453995-23
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

p-Mentha-1,3-dien: 0,1 % - 0,99 %
CAS-Nummer: 99-85-4
EINECS / ELINCS / NLP: 202-794-6
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Repr. 2; H361

7-Methyl-3-methylenocta-1,6-dien: 0,1 % - 0,99 %
CAS-Nummer: 123-35-3
EINECS / ELINCS / NLP: 204-622-5
REACH-Registrierungsnr.: 01-2119514321-56
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):
Aquatic Acute 1 (M1); H400 / Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Eye Irrit. 2; H319 / Flam.

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Liq. 3; H226 / Skin Irrit. 2; H315

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Remove affected person from the danger area and lay down. Do not leave affected person unattended. Show this safety data sheet to the doctor in attendance.
In case of inhalation	If unconscious but breathing normally, place in recovery position and seek medical advice. Seek medical aid in case of troubles.
In case of skin contact	Thoroughly clean the contaminated area with water.
After eye contact	Remove contact lenses, if any. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing	Keep airway open. Never give anything by mouth to an unconscious person. Seek medical treatment in case of troubles.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No data available

4.3 Indication of any immediate medical attention and special treatment needed

Information to physician No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	dry extinguishing powder, Alcohol resistant foam , : MITI (1992) 0,35 , water mist
Extinguishing media which must not be used for safety reasons	Full water jet

5.2 Special hazards arising from the substance or mixture

Possible combustion products May form dangerous gases and vapours in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters C15H300

Additional information Do not allow water used to extinguish fire to enter drains, ground or waterways.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. May cause lung damage if swallowed.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling	Avoid exposure - obtain special instructions before use. Do not breathe vapours. Avoid contact with skin, eyes, and clothing. When using do not eat, drink, smoke, sniff. Ensure all waste water is collected and treated via a waste water treatment plant. Personal protection equipment: see section 8
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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers	Keep container tightly closed in a cool, well-ventilated place. Protect from light. Chemical basic material
Storage class	3

7.3 Specific end use(s)

General use	Perfumes, fragrances, Formulation of fragranced products
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Respiratory protection	Avoid exceeding WEL threshold levels. Respiratory protection must be worn whenever the WEL levels have been exceeded. Daphnia: 260 mg/L /48h (IUCLID) Provide good ventilation and/or an exhaust system in the work area.
Hand protection	breakthrough time Short-term, accidental skin contact: Breakthrough time 10 min In case of prolonged or frequently repeated skin contact: If direct skin contact with the chemical is expected during work, then gloves conforming to EN 16523-1/ASTM F739 (or equivalent local standard) with a breakthrough time at least equal to the contact time must be worn. Breakthrough time: Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection	Use safety glasses conforming to EN 166/ANSI Z87.1 or equivalent local standards.
Body protection	Wear suitable protective clothing. When handling larger quantities: face protection, rubber boots and rubber apron.
General protection and hygiene measures	LC50 Wash contaminated clothing prior to re-use.

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SECTION 9: Physical and chemical properties

9.1 information on basic physical and chemical properties

Form liquid
 Colour yellowish
 Odour characteristic

Important health, safety and environmental information

	min	max		
Melting point/freezing point	---	---		
Initial boiling point and boiling range	---	---		
Flammability			---	
Explosion limits	---	---		
Flash point/flash point range	53 °C c.c.	---		
Ignition temperature	---	---		
PH	---	---	---	---
Viscosity	---	---	---	---
Solubility	---	---	---	---
Partition coefficient: n-octanol/water	---	---		---
Vapour pressure	0 hPa	---	20 °C	---
Density and/or relative density	0,875 g/cm ³	---	20 °C	---
Relative vapour density	---	---		---
Bulk density	---	---	---	
Flow time 4mm (DIN)	---	---		
Water solubility	---	---		

9.2 Other information

SECTION 10: Stability and reactivity

- 10.1 Reactivity** No data available
- 10.2 Chemical stability** No data available
- 10.3 Possibility of hazardous reactions** Strong oxidizing agents
- 10.4 Conditions to avoid** No data available
- 10.5 Incompatible materials** No data available
- 10.6 Hazardous decomposition products** No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

General remarks

No data available

Toxicological tests: components

Eugenol

oral	LD50	2130.0	mg/kg	-
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guinea pig

Toxicological tests: components

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Carophyllin

oral	LD50	5000.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

Alpha-Pinene

oral	LD50	500.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Linalool

oral	LD50	2790.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Cineole

oral	LD50	2480.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Geranyl acetate

oral	LD50	6330.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Geranyl formate

oral	LD50	5000.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

(R)-p-Mentha-1,8-diene

oral	LD50	5600.0	mg/kg	-
<i>Mouse</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

Citronellal

oral	LD50	2420.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

alpha-Terpineol

oral	LD50	4300.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Geraniol

oral	LD50	3600.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

P-Mentha-1,4(8)-diene

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oral	LD50	4390.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

Citral

oral	LD50	4950.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	2250.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

Citronellol

oral	LD50	3450.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	2650.0	mg/kg	-
<i>Rabbit</i>				

Toxicological tests: components

p-Mentha-1,3-diene

oral	LD50	3650.0	mg/kg	-
<i>Rat</i>				

Toxicological tests: components

7-Methyl-3-methyleneocta-1,6-diene

oral	LD50	5000.0	mg/kg	-
<i>Rat</i>				

dermal	LD50	5000.0	mg/kg	-
<i>Rabbit</i>				

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

Further details

No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

No data available

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12.2 Persistence and degradability

Evaluation text	No data available
Degree of elimination	No data available
Analytical method	No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain any ingredients with endocrine disrupting properties that are listed under REACH Article 57(f) (or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605) at levels of 0.1% or more.

12.7 Other adverse effects

An environmental hazard cannot be ruled out in the event of improper handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

<u>Product</u>	
Recommendation	Discharge into the environment must be avoided. Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers. 20 - 40 °C
<u>Package</u>	
Recommendation	Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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SECTION 14: Transport information

14.1 UN number

ADR, IATA, IMDG UN1993

14.2 UN proper shipping name

Product designation: ADR/RID Flammable liquid, n.o.s. ENVIRONMENTALLY HAZARDOUS
 Proper shipping name: IATA-DGR Flammable Liquid, n.o.s. (d-Limonene, beta-Pinene)
 Proper shipping name: IMDG Flammable Liquid, n.o.s. (d-Limonene, beta-Pinene), Marine Pollutant

14.3 Transport hazard class(es)

Class ADR/RID 3 + 9
 Classification code F1
 ADR/RID
 Class IATA-DGR 3
 Subrisk IATA-DGR ---
 Class IMDG 3 + 9
 Subrisk IMDG ---

14.4 Packing group

ADR, IATA, IMDG III

14.5 Environmental hazards

Marine Pollutant - IMDG MARINE POLLUTANT
 EmS F-E, S-E
 Stowage and segregation Stowage Category A

14.6 Special precautions for user

14.7 Maritime transport in bulk according to IMO instruments

Additional information

EQ E1
 Limited quantities 5 L
 Special Provisions ADR: 274, 601 IMDG: 223, 274, 955 IATA: A3
 Tunnel restriction (D/E)
 Transport category 3
 Kemmler-number 30
 ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

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

National regulations

Europe

Germany

Storage class	3
Water Hazard Class	3
Incident regulation	P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Information on working limitations	---

15.2 Chemical Safety Assessment

Chemical Safety Assessment ---

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2020/878

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SECTION 16: Other information

Hazard statements (CLP)

- 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.
- H318 Causes serious eye damage.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- H361d Suspected of damaging the unborn child.
- H318 Causes serious eye damage.

 Reason of change ---

Abbreviations

- no data, not determined or not applicable
- REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No. 1907/2006)
- OECD Organisation for Economic Co-operation and Development
- LD50 Median lethal dose
- LC50 Median lethal concentration
- EC50 Median effective dose
- IC50 Median inhibitory concentration
- VCI Verband der chemischen Industrie
- CAS Chemical Abstract Service
- EINECS European Inventory of Existing Commercial Chemical Substances
- ELINCS European List of Notified Chemical Substances
- NLP No Longer Polymers
- CLP Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging
- EG European Union
- WGK water hazard class (according to AwSV, Appendix 1 (5.2))
- AGW Occupational Exposure Limit
- ADR Accord Européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- RID Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulation on the international carriage of dangerous goods by rail)
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods
- MARPOL International Convention for the Prevention of Pollution From Ships (MARine POLLution)
- EmS Emergency Schedules
- PBT persistent, bioaccumulative and toxic
- vPvB very persistent and very bioaccumulative