

Fragrance ingredients restricted as potential allergens in Geomar Concept candle perfume according to EU provision 1223/2009

Geomar Concept candle perfume item number: 14393-401-1

CAS#	Ingredient Name	Total % in fragrance (calculated) (Direct addition and indirect addition from naturals / synthetics)
100-51-6	BENZYL ALCOHOL	-
101-85-9	AMYL CINNAMYL ALCOHOL	-
101-86-0	HEXYL CINNAMAL	-
103-41-3	BENZYL CINNAMATE	-
104-54-1	CINNAMYL ALCOHOL	-
104-55-2	CINNAMAL	-
105-13-5	ANISE ALCOHOL	-
106-22-9	CITRONELLOL	-
106-24-1	GERANIOL	-
107-75-5	HYDROXYCITRONELLAL	-
111-12-6	METHYL 2-OCTYNOATE	-
118-58-1	BENZYL SALICYLATE	-
120-51-4	BENZYL BENZOATE	-
122-40-7	AMYL CINNAMAL	-
127-51-5	ALPHA-ISOMETHYL IONONE	-
31906-04-4	HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE	-
4602-84-0	FARNESOL	-
5392-40-5	CITRAL	-
5989-27-5	D-LIMONENE	0,240
78-70-6	LINALOOL	0,127
80-54-6	BUTYLPHENYL METHYLPROPIONAL	-
90028-67-4	EVERNIA FURFURACEA (TREETMOSS) EXTRACT	-
90028-68-5	EVERNIA PRUNASTRI (OAKMOSS) EXTRACT	-
91-64-5	COUMARIN	-
97-53-0	EUGENOL	-
97-54-1	ISOEUGENOL	-

The information contained in is, to the best of our knowledge, true and accurate at the time is given. It is provided to the customer for its information and internal use only. Geomar Concept is not liable for any damages that may result from the misuse of the data. It is customer's responsibility to perform its own evaluations on the material valuated in, including with respect to end-use applications. Any customer product, marketing or other claims are customer's sole responsibility.

6/20/2023

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To whom it may concern

9/1/2023

#### Conformity declaration

We herewith confirm that the fragrance with item number *14393-401-1* complies with the requirements of the Code of Practice of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA-51, published 30 JUN 2023), provided it used in following application (class) at a maximum concentration level of:

Combined IFRA category (*)	Maximum level of use (%) (w/w)
Category 1	0,00
Category 2	1,39
Category 3	0,15
Category 4	9,03
Category 5A	1,73
Category 5B	0,15
Category 5C	0,22
Category 5D	0,06
Category 7A	0,67
Category 7B	0,67
Category 8	0,06
Category 9	2,78
Category 10A	2,78
Category 10B	2,78
Category 11A	0,06
Category 11B	0,06
Category 12	29,98

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## ANNEX: Definition of IFRA categories

### Finished product types

Children's toys // Lip products of all types (solid and liquid lipsticks, balms, clear or colored, etc....)	Category 1
Deodorant and antiperspirant products of all types including fragranced body sprays and body mists	Category 2
Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, etc....) // Women's make-up (Foundation) // Make-up removers of all types // Nose pore strips // Wipes or refreshing tissues for face, neck, hands, body // Body paint (for children and adults) // Facial masks (facial treatment)	Category 3
Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de toilette, Parfum, Eau de Cologne, solid perfume, fragrancing cream, Aftershave alcoholic etc....) // Fragranced bracelets // Ingredients of perfume kits and fragrance mixtures for cosmetic kits // Scent pads, Foil packs // Scent strips for hydroalcoholic products	Category 4
Body creams, oils, lotions of all types (except baby cream, lotion, oil) // Foot care products (creams & powders) // Insect repellent intended to be applied on the skin // All powders and talcs (except baby powders and talcs)	Category 5A
Facial creams, toner and moisturizers	Category 5B
Hand cream // Nail care products (including cuticle creams, etc....) // Hand sanitizers	Category 5C
Baby lotion, cream, oil, powder/talc	Category 5D
Mouthwash including breath sprays, tablets and strips // Toothpaste and toothpowder	Category 6
Rinse-off hair permanent or other hair chemical treatments (e.g. relaxers) including hair dyes	Category 7A
Hair sprays // Hair styling aids of all types (mousse, gels, leave in conditioners) // Dry shampoo or waterless shampoo // Hair deodorant // Leave on hair permanent or other hair chemical treatments (e.g. relaxers) including hair dyes	Category 7B
Intimate wipes // Tampons // Baby wipes // Wet toilet paper	Category 8
Bar soap // Shampoo // Face washes, gels, scrubs // Conditioner (rinse-off) // Liquid soap // Body wash and shower gels // Bath gels, foams, mousses, salts, oils // Baby wash, bath, shampoo // Footcare products (feet are placed in a bath for soaking) // Shaving creams // Depilatory (including facial) // Waxes for mechanical hair removal // Shampoos for pets	Category 9
Hand wash laundry detergent // Laundry pre-treatment (all types) // Hand dishwashing detergent // Hard surface cleaner (all types) // Machine laundry detergents with skin contact (e.g. liquids, powders) // Dry cleaning kits // Toilet seat wipes // Fabric softeners (liquids and dryer sheets) // Other household cleaning products (fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes (sprays and wipes), leather cleaning wipes, starch sprays, stain removers, fabric enhancing sprays, treatment products for textiles including deodorizer) // Floor wax // Fragranced oil for lamp rings, reed diffusers, potpourri, etc.... // Ironing water	Category 10A
Air fresheners sprays, including aerosol and pump // Insecticides aerosol or sprays // Sprays (of all types) applied to animals	Category 10B
Feminine hygiene conventional pads, interlabial pads // Feminine hygiene liners // Diapers (baby and adult) // Adult incontinence pant, pad Toilet paper (dry)	Category 11A
Tights with moisturizers // Scented socks, gloves // Facial tissues (dry tissues) // Napkins // Paper towels // Wheat bags // Fragranced facemasks (paper/protective, not intended for use as a medical device)	Category 11B
Air delivery systems // Air Fresheners and fragrancing of all types (excluding aerosols listed in category 10), e.g. plug-ins and enclosed liquid refills, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, air freshening crystals, automated sprays(including concentrated aerosols with metered doses [range 0.05-0.5 mL/spray]), closed air fresheners // Candles of all types (including encased) // Cat litter // Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders) // Fuels /Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosol/spray // Joss sticks or incense sticks // Laundry detergents with minimal skin contact (e.g. pods) // Machine dishwash detergent and deodorizer // Paints // Plastic articles (excluding toys) // "Scratch and sniff" (sampling technology) // Scent pack // Scent delivery system using a dry air technology // Shoe polishes // Toilet blocks // Olfactive board games	Category 12

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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 14393-401-1
UFI	Hot Coffee 72 YJMS-YMPD-CU15-XVHC

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

General use	Perfumes, fragrances, Formulation of fragranced products
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### 1.3 Details of the supplier of the safety data sheet

Company/undertaking identification Name	Geomar Concept
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.  
Skin Sens. 1; H317 May cause an allergic skin reaction.

### 2.2 Label elements



#### Signal word

Warning

#### Nature of Hazard

GHS07 Exclamation mark

#### Hazard statements

H317 May cause an allergic skin reaction.

#### Safety precautions

H412 Harmful to aquatic life with long lasting effects.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P362+P364 Take off contaminated clothing and wash it before reuse.

#### Hazard components for labelling

(R)-p-Mentha-1,8-diene  
Carophyllin  
Alpha-Pinene  
Dibenzyl ether  
Linalool

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Pin-2(10)-ene  
3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene

## Special provisions concerning the labelling of certain mixtures

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### 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

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### 3.2 Mixtures

#### Hazardous ingredients

3-methylbutyraldehyde: 0,1 % - 0,99 %

CAS-Nummer: 590-86-3

EINECS / ELINCS / NLP: 209-691-5

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

Aquatic Chronic 2; H411 / Eye Irrit. 2; H319 / Flam. Liq. 2; H225 / STOT SE 3; H335 / Skin Sens. 1B; H317

(R)-p-Mentha-1,8-dien: 0,1 % - 0,99 %

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

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

2-methoxy-4-methylphenol: 0,1 % - 0,99 %

CAS-Nummer: 93-51-6

EINECS / ELINCS / NLP: 202-252-9

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

Acute Tox. 4; H302 / Eye Irrit. 2; H319 / Skin Irrit. 2; H315 / Skin Sens. 1B; H317

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Dibenzyl ether: 0,1 % - 0,99 %  
CAS-Nummer: 103-50-4  
EINECS / ELINCS / NLP: 203-118-2  
REACH-Registrierungsnr.: 01-2119782240-44  
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):  
Aquatic Acute 1 (M1); H400 / Aquatic Chronic 1; H410 / 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

Pin-2(10)-en: 0,1 % - 0,99 %  
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

3,7,7-Trimethylbicyclo[4.1.0]hept-3-en: 0,1 % - 0,99 %  
CAS-Nummer: 13466-78-9  
EINECS / ELINCS / NLP: 236-719-3  
REACH-Registrierungsnr.: 01-2119520252-55  
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):  
Acute Tox. 4; H332 / Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / Flam. Liq. 3; H226 / Skin Irrit. 2; H315 / Skin Sens. 1; H317

2-Hydroxy-3-methylcyclopent-2-en-1-one  
: 3 % - 9,99 %  
CAS-Nummer: 765-70-8  
80-71-7  
EINECS / ELINCS / NLP: 212-154-8  
201-303-2  
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):  
Acute Tox. 4; H302 / Skin Sens. 1; H317

alpha-Cedrene: 0,01 % - 0,09 %  
CAS-Nummer: 469-61-4  
EINECS / ELINCS / NLP: 207-418-4  
Einstufung gemäß EG-Verordnung 1272/2008 (CLP):  
Aquatic Acute 1 (M10); H400 / Aquatic Chronic 1 (M10); H410 / Asp. Tox. 1; H304 / Skin Irrit. 2; H315

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

Information to physician	No data available
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	dry extinguishing powder, Alcohol resistant foam , carbon dioxide , 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.
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### 5.3 Advice for firefighters

Special protective equipment for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing.
Additional information	Do not allow water used to extinguish fire to enter drains, ground or waterways. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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### 6.2 environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary notify appropriate authorities.  
Discharge into the environment must be avoided.

### 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

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## 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

### 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.

Storage class

10

### 7.3 Specific end use(s)

General use

Perfumes, fragrances, Formulation of fragranced products

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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### 8.2 Exposure controls

Respiratory protection

Avoid exceeding WEL threshold levels. Respiratory protection must be worn whenever the WEL levels have been exceeded. 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

Avoid contact with skin, eyes, and clothing. After work, wash hands and face. When using do not eat, drink or smoke. 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	102 °C c.c.	---		
Ignition temperature	---	---		
PH	---	---	---	---
Viscosity	---	---	---	---
Solubility	---	---	---	---
Partition coefficient: n-octanol/water	---	---		---
Vapour pressure	Ber. 0,5108 hPa	---	20 °C	---
Density and/or relative density	0,885 g/cm <sup>3</sup>	---	20 °C	---
Relative vapour density	---	---		---
Bulk density	---	---	---	
Flow time 4mm (DIN)	---			
Water solubility	---			

### 9.2 Other information

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## 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

##### 3-methylbutyraldehyde

oral	LD50	5000.0	mg/kg	-
Rat				
dermal	LD50	5000.0	mg/kg	-

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Rabbit				
<b><u>Toxicological tests: components</u></b>				
<b>(R)-p-Mentha-1,8-diene</b>				
oral	LD50	5600.0	mg/kg	-
Mouse				
dermal	LD50	5000.0	mg/kg	-
Rabbit				
<b><u>Toxicological tests: components</u></b>				
<b>Carophyllin</b>				
oral	LD50	5000.0	mg/kg	-
Rat				
dermal	LD50	5000.0	mg/kg	-
Rabbit				
<b><u>Toxicological tests: components</u></b>				
<b>Alpha-Pinene</b>				
oral	LD50	500.0	mg/kg	-
Rat				
<b><u>Toxicological tests: components</u></b>				
<b>2-methoxy-4-methylphenol</b>				
oral	LD50	623.0	mg/kg	-
Rat				
<b><u>Toxicological tests: components</u></b>				
<b>Dibenzyl ether</b>				
oral	LD50	2500.0	mg/kg	-
Rat				
<b><u>Toxicological tests: components</u></b>				
<b>Linalool</b>				
oral	LD50	2790.0	mg/kg	-
Rat				
<b><u>Toxicological tests: components</u></b>				
<b>3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene</b>				
oral	LD50	4800.0	mg/kg	-
Rat				
<b><u>Toxicological tests: components</u></b>				
<b>2-Hydroxy-3-methylcyclopent-2-en-1-one</b>				
oral	LD50	1067.0	mg/kg	-
Rat				
<b><u>Toxicological tests: components</u></b>				
<b>alpha-Cedrene</b>				
oral	LD50	5000.0	mg/kg	-
Rat				
dermal	LD50	5000.0	mg/kg	-
Rabbit				

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## **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.  
No data available

Further details

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

### **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**

#### **Product**

Recommendation

Discharge into the environment must be avoided. Dispose of waste according to applicable legislation.

#### **Package**

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

UNnot regulated

14.2 UN proper shipping name

Product designation: ADR/RID

No dangerous good in sense of these transport regulations.

Proper shipping name: IATA-DGR

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Proper shipping name: IMDG

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14.3 Transport hazard class(es)

Class ADR/RID

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Classification code

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ADR/RID

Class IATA-DGR

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Subrisk IATA-DGR

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Class IMDG

---

Subrisk IMDG

---

14.4 Packing group

ADR, IATA, IMDG

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14.5 Environmental hazards

Marine Pollutant - IMDG

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EmS

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Stowage and segregation

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14.6 Special precautions for user

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14.7 Maritime transport in bulk according to IMO instruments

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Additional information

EQ

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Limited quantities

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Special Provisions

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Tunnel restriction

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Transport category

---

Kemmler-number

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No dangerous good in sense of these transport regulations.

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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

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##### Germany

Storage class	10
Water Hazard Class	2 deutlich wassergefährdend
Major Accident Ordinance (12. BImSchV)	---
Information on working limitations	Observe employment restrictions for young people.

### 15.2 Chemical Safety Assessment

Chemical Safety Assessment	---
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# SAFETY DATA SHEET

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

Item number/ Trade name 14393-401-1

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## SECTION 16: Other information

### Hazard statements (CLP)

H225 Highly flammable liquid and vapour.  
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.  
H332 Harmful if inhaled.  
H335 May cause respiratory 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.

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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