

Trade name: LINARI-FIORE**Current version :** 4.0.1, issued: 04.06.2024**Replaced version:** 4.0.0, issued: 26.05.2021**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****LINARI-FIORE****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Fragrances

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**LINARI GmbH
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21109 Hamburg
Germany

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Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number) international:

GBK GmbH - Global Regulatory Compliance +49 (0)6132-84463

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Repr. 1B; H360

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

2-(4-tert-butylbenzyl) propionaldehyde

Hazard statement(s)

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H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H360 May damage fertility or the unborn child
 H412 Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains linalool, (2E)-2-(phenylmethylidene)octanal, Benzyl salicylate, Citronellol, 7-hydroxycitronellal, [3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, geraniol, alpha-methyl-1,3-benzodioxole-5-propionaldehyde. May produce an allergic reaction.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P201 Obtain special instructions before use.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

2.3 Other hazards

PBT assessment

The components of this product are not considered to be PBT (PBT = persistent, bioaccumulative, toxic) according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

vPvB assessment

The components of this product are not considered to be vPvB (vPvB = very persistent, very bioaccumulative) according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	ethanol			
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 70.00 - < 90.00	wt%
2	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran			
	1222-05-5 214-946-9 603-212-00-7 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 2.50	wt%
3	linalool			
	78-70-6 201-134-4 603-235-00-2 -	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	< 2.50	wt%
4	(2E)-2-(phenylmethylidene)octanal			
	165184-98-5 639-566-4 - -	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Skin Sens. 1; H317	< 2.50	wt%
5	2-(4-tert-butylbenzyl) propionaldehyde			

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	80-54-6 201-289-8 605-041-00-3 -	Repr. 1B; H360Fd	< 2.50	wt%
6	Benzyl salicylate			
	118-58-1 204-262-9 607-754-00-5 01-2119969442-31	Aquatic Chronic 3; H412 Skin Sens. 1B; H317 Eye Irrit. 2; H319	< 2.50	wt%
7	Citronellol			
	106-22-9 203-375-0 - 01-2119453995-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 2.50	wt%
8	7-hydroxycitronellal			
	107-75-5 203-518-7 - 01-2119973482-31	Eye Irrit. 2; H319 Skin Sens. 1; H317	< 2.50	wt%
9	[3R-(3alpha,3abeta,7beta,8alpha)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8 tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			
	32388-55-9 251-020-3 - -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317	< 2.50	wt%
10	geraniol			
	106-24-1 203-377-1 603-241-00-5 -	Skin Sens. 1; H317	< 0.50	wt%
11	alpha-methyl-1,3-benzodioxole-5-propionaldehyde			
	1205-17-0 214-881-6 - -	Aquatic Chronic 2; H411 Skin Sens. 1B; H317 Repr. 2; H361	< 0.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C >= 50%	-	-

No	Route, target organ, concrete effect
11	H361 inhalational; -; -

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. In case of persisting adverse effects consult a physician. If unconscious place in recovery position and seek medical advice.

After skin contact

In case of contact with skin wash off immediately with soap and water. Remove contaminated clothing. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

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Rinse the mouth thoroughly with water. Do not induce vomiting. If swallowed drink plenty of water and seek medical treatment. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Foam; Extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

Formation of explosive mixtures with air is possible. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Take precautionary measures against static charges.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

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Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Store product in closed containers. Always keep in containers of same material as the original.

Incompatible products

Do not store together with fire promoting substances.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
List of approved workplace exposure limits (WELs) / EH40			
Ethanol			
	WEL long-term (8-hr TWA reference period)	1920	mg/m ³ 1000 ppm

DNEL, DMEL and PNEC values**DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	ethanol	64-17-5 200-578-6		
	dermal	Long term (chronic)	systemic	8238 mg/kg/day
	inhalative	Long term (chronic)	systemic	380 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	ethanol	64-17-5 200-578-6		
	inhalative	Long term (chronic)	systemic	114 mg/m ³

PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	ethanol	64-17-5 200-578-6	
	water	fresh water	0.96 mg/L
	water	marine water	0.79 mg/L
	water	fresh water sediment	3.6 mg/kg dry weight
	water	marine water sediment	2.9 mg/L
	soil	-	0.63 mg/kg dry weight
	sewage treatment plant	-	580 mg/L
	secondary poisoning	-	0.38 g/kg
	with reference to: food		

8.2 Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment**Respiratory protection**

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If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Combination filter (EN 14387), filter type A - brown; In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Material thickness		0.5	mm
Breakthrough time	>	480	min

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation	
liquid	
Form	
liquid	
Colour	
clear, colourless to slightly yellow	
Odour	
characteristic	
pH value	
Value	5.4
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	20 °C
Method	Abel Pensky, DIN 51755, PV 01194
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
No data available	
Upper explosion limit	
No data available	
Vapour pressure	
No data available	

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Relative vapour density	
No data available	

Relative density	
Value	0.976 - 0.986
Reference temperature	20 °C
Source	manufacturer

Density	
No data available	

Solubility	
No data available	

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
log Pow		-0.35	
Reference temperature		24	°C
with reference to		pH 7,4	
Method		OECD 107	
Source		ECHA	

Kinematic viscosity	
No data available	

Particle characteristics	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Generation of flammable vapor-air mixtures possible.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Static discharges.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LD50		10470	mg/kg bodyweight
Species		rat	
with reference to		95% ethanol in water	
Method		OECD 401	
Source		ECHA	

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Evaluation/classification	Based on available data, the classification criteria are not met.
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Acute dermal toxicity
No data available

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		124.7	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure	respiratory tract		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	Skin		
Species	mouse		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	in vitro gene mutation study in mammalian cells		
Species	mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	Genotoxicity in vivo		
Species	mouse		
Method	OECD 478		
Source	ECHA		

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Evaluation/classification	Based on available data, the classification criteria are not met.
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Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure		oral	
NOAEL			
Type of examination		2 generation study	
Species		mouse	
Method		OECD 416	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
NOAEL		>=	20000 ppm
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Route of exposure		oral	
Duration of exposure		14	week/s
Species		rat	
Target organ		kidneys	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard			
No data available			

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		14200	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		EPA	
Source		ECHA	

Toxicity to fish (chronic)			
No data available			

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No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
EC50		5012	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	ASTM Standard E 729-80		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
NOEC		9.6	mg/l
Duration of exposure		9	day(s)
Species	Daphnia magna		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Type	aerobic biodegradation		
Value	appr.	84	%
Duration		20	day(s)
Source	ECHA		
Evaluation	readily biodegradable		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
log Pow		-0.35	
Reference temperature		24	°C
with reference to	pH 7,4		
Method	OECD 107		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be PBT (PBT = persistent, bioaccumulative, toxic) according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

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vPvB assessment

The components of this product are not considered to be vPvB (vPvB = very persistent, very bioaccumulative) according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

In accordance with regulations for special waste, must be taken to a special waste disposal.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR/RID/ADN	UN1266
IMDG	UN1266
ICAO-TI / IATA	UN1266

14.2 UN proper shipping name

ADR/RID/ADN	PERFUMERY PRODUCTS
IMDG	PERFUMERY PRODUCTS
ICAO-TI / IATA	Perfumery products

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	3
Label	3
Classification code	F1
Tunnel restriction code	D/E
Hazard identification no.	33
Special Provision 640	640D
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

14.4 Packing group

ADR/RID/ADN	II
IMDG	II
ICAO-TI / IATA	II

14.5 Environmental hazards

EmS	F-E, S-D
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14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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EU regulations**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

The product contains following substance(s) meeting the criteria in Article 57 in association with Article 59 of the REACH regulation ((EC) 1907/2006) that are placed on the list of candidates considered for inclusion in annex XIV (substances subject to Authorisation).

No	Substance name	CAS no.	EC no.
1	2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	201-289-8

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	2-(4-tert-butylbenzyl) propionaldehyde	80-54-6	201-289-8	30, 75
2	Benzyl salicylate	118-58-1	204-262-9	75
3	geraniol	106-24-1	203-377-1	75
4	linalool	78-70-6	201-134-4	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: P5b

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361	Suspected of damaging fertility or the unborn child.
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.

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Trade name: LINARI-FIORE

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