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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 27.04.2021 / 0012

Replacing version dated / version: 19.05.2020 / 0011

Valid from: 27.04.2021 PDF print date: 21.05.2021 LUX ELEMENTS®-COL-MK

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

### 1.1 Product identifier

# LUX ELEMENTS®-COL-MK

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

Adhesive

Assembly material

## **Uses advised against:**

No information available at present.

## 1.3 Details of the supplier of the safety data sheet

LUX ELEMENTS GmbH & Co. KG

An der Schusterinsel 7 51379 Leverkusen Tel.: +49 (0)2171/72 12-0

Fax: +49 (0)2171/72 12-40 Email: info@luxelements.de Homepage: www.luxelements.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

## 1.4 Emergency telephone number

Emergency information services / official advisory body:

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## Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LEC)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Eye Irrit. 2 H319-Causes serious eye irritation.

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

# 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



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H319-Causes serious eye irritation. H412-Harmful to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P280-Wear eye protection / face protection.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice / attention.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH208-Contains Trimethoxyvinylsilane. May produce an allergic reaction.

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

n.a

## 3.2 Mixtures

Trimethoxyvinylsilane	
Registration number (REACH)	01-2119513215-52-XXXX
Index	014-049-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	220-449-8
CAS	2768-02-7
content %	1-5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Acute Tox. 4, H332
	Skin Sens. 1B, H317

3-(trimethoxysilyl)propylamine	
Registration number (REACH)	01-2119510159-45-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	237-511-5
CAS	13822-56-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Dam. 1, H318



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Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-	
4-hydroxyphenyl]methyl]butylmalonate	
Registration number (REACH)	01-2119978231-37-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	264-513-3
CAS	63843-89-0
content %	0,025-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Acute Tox. 4, H302
factors	STOT RE 1, H372 (lymph nodes, liver, spleen)
	Aquatic Chronic 1, H410 (M=10)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

## Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Unsuitable cleaning product:

Solvent

**Thinners** 

## Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

n.c.

## **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media Suitable extinguishing media

CO<sub>2</sub>

Extinction powder

Water jet spray

Large fire:

Water jet spray / alcohol resistant foam

# Unsuitable extinguishing media

None known

# 5.2 Special hazards arising from the substance or mixture



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In case of fire the following can develop:

Oxides of carbon Oxides of sulphur Toxic gases

# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Or:

Pick up mechanically and dispose of according to Section 13.

## 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

## 7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

## 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Store cool.

Store in a dry place.

## 7.3 Specific end use(s)

No information available at present.



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# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

i ne methanoi listed below can ar	ise upon contact wi	tn water.				
© Chemical Name	Calcium carbonat	te				Content %:
WEL-TWA: 4 mg/m3 (respirable	e dust), 10 mg/m3	WEL-STEL:				
(total inhalable dust)						
Monitoring procedures:	-					
BMGV:				Other information:		
© Chemical Name	Methanol					Content %:
WEL-TWA: 200 ppm (266 mg/r	n3) (WEL), 200	WEL-STEL:	250 ppm (333 r	mg/m3 (WEL)		
ppm (260 mg/m3) (EU)						
Monitoring procedures:	- [	Draeger - Alcoh	ol 25/a Methanol	(81 01 631)		
_	- (	Compur - KITA-	119 SA (549 640	))		
	- (	Compur - KITA-	119 U (549 657)			
		OFG Meth. Nr. 6	6 (D) (Loesungsn	nittelgemische 6), DFG	(E) (So	lvent mixtures 6) -
	- 2	2013, 2002 - EL	J project BC/CEN	I/ENTR/000/2002-16 c	ard 65-1	(2004)
	- 1	NIOSH 2000 (M	ETHANOL) - 199	98		
	- 1	NOSH 2549 (V	OLATILE ORGA	NIC COMPOUNDS (S	CREENI	NG)) - 1996
	1	NIOSH 3800 (O	RGANIC AND IN	ORGANIC GASES B'	Y EXTRA	ACTIVE FTIR
	- 8	SPECTROMET	RY) - 2016			
	- E	Draeger - Alcoh	ol 100/a (CH 29	701)		
BMGV:			·	Other information:	Sk (WEL	., EU)

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental compartment		r			
	Environment - freshwater		PNEC	0,4	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - marine		PNEC	0,04	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - water, sporadic (intermittent) release		PNEC	2,4	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.



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	Environment sowers		PNEC	6.6	ma/l	Für
	Environment - sewage treatment plant			6,6	mg/l	entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - sediment, marine		PNEC	0,15	mg/kg dw	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - soil		PNEC	0,06	mg/kg dw	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
Consumer	Human - dermal	Short term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,7	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	93,4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,6	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	4,9	mg/m3	

3-(trimethoxysilyl)propy	ylamine					
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,33	mg/l	
	Environment - marine		PNEC	0,033	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	3,3	mg/l	
	Environment - sediment, freshwater		PNEC	1,2	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,12	mg/kg dry weight	



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	Environment - soil		PNEC	0,045	mg/kg dry weight
	Environment - sewage treatment plant		PNEC	13	mg/l
Consumer	Human - inhalation	Short term, systemic effects	DNEL	17,4	mg/m3
Consumer	Human - dermal	Short term, systemic effects	DNEL	5	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17	mg/m3
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	17,4	mg/m3
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	8,3	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	58	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/d

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,00004	mg/l	
	Environment - marine		PNEC	0	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,61	mg/l	
	Environment - sediment, freshwater		PNEC	504,4	mg/kg dry weight	
	Environment - sediment, marine		PNEC	50,44	mg/kg dry weight	
	Environment - soil		PNEC	1	mg/kg	
	Environment - sewage treatment plant		PNEC	1	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,01	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,033	mg/kg body weight/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,003	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,07	mg/kg bw/day	

Area of application	Calcium carbonate						
	Area of application	Environmental Environmental	Effect on health	Descripto r	Value	Unit	Note



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	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,26	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	154	mg/l	
	Environment - marine		PNEC	15,4	mg/l	
	Environment - sediment, freshwater		PNEC	570,4	mg/kg	
	Environment - sediment, marine		PNEC	57,04	mg/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	1540	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	50	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	50	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body weight/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	50	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	8	mg/kg body weight/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	8	mg/kg body weight/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	8	mg/kg body weight/day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	40	mg/kg body weight/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	260	mg/m3	



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Workers / employees	Human - dermal	Long term, systemic effects	DNEL	40	mg/kg body weight/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	260	mg/m3

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
- (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

### 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374).

Minimum layer thickness in mm:

>= 0.35

Permeation time (penetration time) in minutes:

>= 120

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).



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Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state: Pastelike, Liquid

Colour: White

Odour: Characteristic
Odour threshold: Not determined

pH-value: Mixture reacts with water.

Melting point/freezing point:

Not determined Initial boiling point and boiling range:

Not determined

Flash point: ~98 °C

Evaporation rate: Not determined Flammability (solid, gas): Not determined

Lower explosive limit:

Upper explosive limit:

n.a.

n.a.

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Not determined

1,58-1,62 g/cm3 (20°C)

Bulk density:

Not determined

Solubility(ies):

Not determined

Water solubility: Mixable

Partition coefficient (n-octanol/water):

Not determined

Auto-ignition temperature: No

Decomposition temperature:

Not determined Viscosity:

Not determined

Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

Not determined

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The product has not been tested.

## 10.2 Chemical stability



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# Stable with proper storage and handling. 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

## 10.4 Conditions to avoid

Strong heat

# 10.5 Incompatible materials

None known

# 10.6 Hazardous decomposition products

Traces possible: Methanol

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

LUX ELEMENTS®-COL-MK						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	-					n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated
						value, Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact),
					Lymph Node Assay)	Analogous
						conclusion
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Trimethoxyvinylsilane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	7120	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by inhalation:	LD50	2773	ppm/4h	Rat	OECD 403 (Acute	Aerosol
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Slightly irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Skin Sens. 1B
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	



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Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						Negative
Symptoms:						drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	62,5	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	Target organ(s): bladder
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	0,058	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Vapours

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>10000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Dam. 1
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
				typhimurium	Reverse Mutation	Analogous
					Test)	conclusion
Germ cell mutagenicity:				Mouse	OECD 474	Negative,
					(Mammalian	Analogous
					Erythrocyte	conclusion
					Micronucleus Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative,
					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Analogous
					Mutation Test)	conclusion
Reproductive toxicity:	NOAEL	200	mg/kg	Rat	OECD 414 (Prenatal	
					Developmental	
					Toxicity Study)	



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Specific target organ toxicity -	NOAEL	200	mg/kg	Rat	OECD 408 (Repeated	Target
repeated exposure (STOT-					Dose 90-Day Oral	organ(s): liver,
RE), oral:					Toxicity Study in	Analogous
					Rodents)	conclusion
Specific target organ toxicity -	LOAEL	600	mg/kg	Rat	OECD 408 (Repeated	Target
repeated exposure (STOT-					Dose 90-Day Oral	organ(s): liver,
RE), oral:					Toxicity Study in	Analogous
					Rodents)	conclusion
Specific target organ toxicity -	NOAEC	147	mg/m3	Rat	OECD 412 (Subacute	Aerosol
repeated exposure (STOT-					Inhalation Toxicity -	
RE), inhalat.:					28-Day Study)	

Bis(1,2,2,6,6-pentamethyl-4-p	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	1490	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)					
Acute toxicity, by dermal route:	LD50	>3170	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)					
Acute toxicity, by inhalation:	LD50	> 460	mg/m3/4	Rat	OECD 403 (Acute Inhalation Toxicity)					
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant				
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant				
Respiratory or skin sensitisation:				Guinea pig		Not sensitizising				
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative				
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negativetest species: Chinese hamster				
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Positivetest species: Chinese hamster				
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative				
Reproductive toxicity:	NOAEL	>= 10	mg/kg bw/d	Rat	OECD 421 (Reproduction/Develop mental Toxicity Screening Test)					
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s): lymph nodes, liver, spleen				
Aspiration hazard:						No				
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	2	mg/kg bw/d	Rat		test guideline: OECD 421				

Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes



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Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute	
					Oral toxicity - Fixe	
					Dose Procedure)	
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute	
3. 3					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
				Nabbit	Eye	INOL IIIILAIIL
damage/irritation:						
				1	Irritation/Corrosion)	<b>N.</b> (1)
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	
					Test)	
Germ cell mutagenicity:					OEĆD 473 (In Vitro	Negative
					Mammalian	3
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
Germ cell mutagenicity:					Mammalian Cell Gene	ivegative
0					Mutation Test)	NI - in dia -ti
Carcinogenicity:						No indications
						of such an
						effect.
Reproductive toxicity:	NOEL	1000	mg/kg	Rat	OECD 422	
			bw/d		(Combined Repeated	
					Dose Tox. Study with	
					the	
					Reproduction/Develop	
					m. Tox. Screening	
					Test)	
Specific target organ toxicity -					1 001)	No indications
single exposure (STOT-SE):						of such an
single exposure (0101-02).						effect.
Charific target argan tayloity						
Specific target organ toxicity -						No indications
repeated exposure (STOT-						of such an
RE):						effect.
Aspiration hazard:		1.22		<u> </u>		No
Specific target organ toxicity -	NOAEL	1000	mg/kg	Rat	OECD 422	
repeated exposure (STOT-			bw/d		(Combined Repeated	
RE), oral:					Dose Tox. Study with	
,,					the	
					Reproduction/Develop	
					m. Tox. Screening	
					Test)	
Chaoifia target argen tavisiti:	NOAFO	0.242	ma/I	Pot	OECD 413	
Specific target organ toxicity -	NOAEC	0,212	mg/l	Rat		
repeated exposure (STOT-					(Subchronic Inhalation	
RE), inhalat.:					Toxicity - 90-Day	
					Study)	

Methanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	300	mg/kg	Human being		Experiences on
						persons.



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Acute toxicity, by dermal	LD50	17100	mg/kg	Rabbit		Does not
route:						conform with EU
						classification.
Acute toxicity, by inhalation:	LC50	85	mg/l/4h	Rat		Not relevant for
						classification.,
						Vapours
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	
					Test)	
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Carcinogenicity:				Mouse	OECD 453	Negative
					(Combined Chronic	
					Toxicity/Carcinogenicit	
					y Studies)	
Reproductive toxicity:	NOAEL	1,3	mg/l	Mouse	OECD 416 (Two-	
•					generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -	NOAEL	0,13	mg/l	Rat	OECD 453	
repeated exposure (STOT-					(Combined Chronic	
RĖ):					Toxicity/Carcinogenicit	
,					y Studies)	
Symptoms:					,	abdominal
, ,						pain, vomiting,
						headaches,
						gastrointestinal
						disturbances,
						drowsiness,
						visual
						disturbances,
						watering eyes,
						nausea, mental
						confusion,
						intoxication,
						dizziness

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

LUX ELEMENTS®-COL-MK									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:							n.d.a.		
12.1. Toxicity to							n.d.a.		
daphnia:									
12.1. Toxicity to algae:							n.d.a.		
12.2. Persistence and							n.d.a.		
degradability:									



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12.3. Bioaccumulative				n.d.a.
potential:				
12.4. Mobility in soil:				n.d.a.
12.5. Results of PBT				n.d.a.
and vPvB assessment				
12.6. Other adverse				n.d.a.
effects:				
Other information:	AOX			According to
				the recipe,
				contains no
				AOX.

Trimethoxyvinylsilane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	169	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	28	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	25	mg/l	Selenastrum capricornutum		
12.2. Persistence and degradability:	BOD	28d	51	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily biodegradable
12.2. Persistence and degradability:		28d	51	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Toxicity to bacteria:	EC50	3h	>2500	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

3-(trimethoxysilyI)propylamine								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	



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12.1. Toxicity to fish:	LC50	96h	>934	mg/l	Brachydanio rerio	OECD 203	Analogous
						(Fish, Acute	conclusion
40.4 Tandakata	5050	401-	004		Dankaia ara	Toxicity Test)	A I
12.1. Toxicity to	EC50	48h	331	mg/l	Daphnia magna	OECD 202	Analogous
daphnia:						(Daphnia sp. Acute	conclusion
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	>1000	mg/l	Desmodesmus	OECD 201	Analogous
12.1. Toxicity to algae.	2030	7211	71000	ilig/i	subspicatus	(Alga, Growth	conclusion
					Gabopicatas	Inhibition Test)	001101001011
12.2. Persistence and		28d	67	%		Regulation (EC)	Not readily
degradability:						440/2008 C.4-A	biodegradable,
3						(DETERMINATI	Analogous
						ON OF 'READY'	conclusion
						BIODEGRADABI	
						LITY - DOC DIE-	
						AWAY TEST)	
12.3. Bioaccumulative							No
potential:							
12.4. Mobility in soil:							Slight
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
Tandalia da bandania	F050		0.400	/1			vPvB substance
Toxicity to bacteria:	EC50		3400	mg/l	activated sludge		D (
Toxicity to bacteria:	EC10		13	mg/l	Pseudomonas		References,
					putida		Analogous
							conclusion5,75 h
Toxicity to bacteria:	EC50		43	mg/l	Pseudomonas		Analogous
TOXICITY TO DACTOTIA.			43	ilig/i	putida		conclusion5,75
					pullua		h

Bis(1,2,2,6,6-pentamet	hyl-4-piperidyl)	[[3,5-bis(	1,1-dimeth	ylethyl)-4	hydroxyphenyl]meth	yl]butylmalonate	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LOEC/LOEL	21d	6,4	µg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	2	µg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	61	mg/l	Scenedesmus subspicatus		
12.2. Persistence and degradability:		28d	1 - 2	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable



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12.3. Bioaccumulative	BCF		24,3-			OECD 305	conc. in
potential:			340			(Bioconcentration	evironment:
poternian			0.0			- Flow-Through	0,01 ppm
						Fish Test)	-,-
12.3. Bioaccumulative	BCF		49,3-			OECD 305	conc. in
potential:			437,1			(Bioconcentration	evironment: 0,1
•						- Flow-Through	ppm
						Fish Test)	
Toxicity to bacteria:	IC50	3h	>100	mg/l	activated sludge	OECD 209	
						(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h			Oncorhynchus	OECD 203	No observation
					mykiss	(Fish, Acute	with saturated
						Toxicity Test)	solution of test
							material.
12.1. Toxicity to	EC50	48h			Daphnia magna	OECD 202	No observation
daphnia:						(Daphnia sp.	with saturated
						Acute	solution of test
						Immobilisation	material.
						Test)	
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	14	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and							Not relevant fo
degradability:							inorganic
							substances.
12.3. Bioaccumulative							Not to be
potential:							expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
			<b>_</b>			0.000.000	vPvB substanc
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
						(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
	110=0010=1		1			Oxidation))	
Toxicity to bacteria:	NOEC/NOEL	3h	1000	mg/l	activated sludge	OECD 209	
						(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	



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Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208	Glycine max
						(Terrestrial	
						Plants, Growth	
						Test)	
Other organisms:	EC50	21d	>1000	mg/kg dw		OEĆD 208	Lycopersicon
						(Terrestrial	esculentum
						Plants, Growth	
						Test)	
Other organisms:	EC50	21d	>1000	mg/kg dw		OECD 208	Avena sativa
						(Terrestrial	
						Plants, Growth	
						Test)	
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208	Glycine max
						(Terrestrial	
						Plants, Growth	
						Test)	
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208	Lycopersicon
						(Terrestrial	esculentum
						Plants, Growth	
						Test)	
Other organisms:	NOEC/NOEL	21d	1000	mg/kg dw		OECD 208	Avena sativa
Ü						(Terrestrial	
						Plants, Growth	
						Test)	
Other organisms:	EC50	14d	>1000	mg/kg dw	Eisenia foetida	OECD 207	
•						(Earthworm,	
						Acute Toxicity	
						Tests)	
Other organisms:	NOEC/NOEL	14d	1000	mg/kg dw	Eisenia foetida	OECD 207	
· ·						(Earthworm,	
						Acute Toxicity	
						Tests)	
Other organisms:	EC50	28d	>1000	mg/kg dw		OECD 216 (Soil	
-						Microorganisms -	
						Nitrogen	
						Transformation	
						Test)	
Other organisms:	NOEC/NOEL	28d	1000	mg/kg dw		OECD 216 (Soil	
Ŭ						Microorganisms -	
						Nitrogen	
						Transformation	
						Test)	
Water solubility:			0,0166	g/l		OECD 105	20°C
,			,			(Water Solubility)	

Methanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
12.1. Toxicity to fish:	LC50	96h	15400	mg/l	Lepomis		EPA-660/3-75-
					macrochirus		009
12.1. Toxicity to	EC50	96h	18260	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	



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12.1. Toxicity to algae:	EC50	96h	22000	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth Inhibition Test)	
12.2. Persistence and		28d	99	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
						Test)	
12.3. Bioaccumulative potential:	BCF		28400		Chlorella vulgaris		Not to be expected
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration	
						Inhibition Test (Carbon and Ammonium	
Other information:	Log Pow		-0,77			Oxidation))	
Other information:	DOC		<70	%			
Other information:	BOD		>60	%			

# **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

## For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

## For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 10 packaging containing residues of or contaminated by hazardous substances

# **SECTION 14: Transport information**

## **General statements**

14.1. UN number: n.a.

## Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LQ:n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:



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## Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

n.a.

n.a.

14.5. Environmental hazards:

Not applicable

## 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

## **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

0 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

Revised sections:

2, 3, 8, 11, 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
Eye Irrit. 2, H319	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

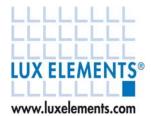
H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.



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Eye Irrit. — Eye irritation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Flam. Liq. — Flammable liquid

Acute Tox. — Acute toxicity - inhalation

Skin Sens. — Skin sensitization

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Acute Tox. — Acute toxicity - oral

STOT RE — Specific target organ toxicity - repeated exposure

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

**IUCLIDInternational Uniform Chemical Information Database** 

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

organic org.

persistent, bioaccumulative and toxic PBT

PΕ Polyethylene

PNEC Predicted No Effect Concentration

parts per million ppm PVC Polyvinylchloride

Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Telephone Tel.

**UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

# These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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