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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0008

Revision date / version: 17.1.2021 / 0007 Replacing version dated / version: 17.03.2021 / 0007 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO HD-100.110 COSMO HD-100.112 COSMO HD-100.114

(COSMOHYBRID 490)

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

COSMO HD-100.110 COSMO HD-100.112 COSMO HD-100.114

(COSMOHYBRID 490)

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

Relevant identified uses of the substance or mixture:

Adhesive Assembly materia

Uses advised against:

No information available at present

1.3 Details of the supplier of the safety data sheet Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0

msds@weiss-chemie.de www.weiss-chemie.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:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC) +1 872 5888271 (WIC)

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. H319-Causes serious eye irritation. 2 H412-Harmful to aquatic life with long lasting Aquatic 3

Chronic effects.

2.2 Label elements

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



Warning

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

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.

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 %). The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures	
Trimethoxyvinylsilane	
Posiciration number (PEACH)	01-2110513215-52-YYYY

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

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	Skin Irrit. 2, H315
(CLP), M-factors	Eye Dam. 1, H318

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	Acute Tox. 4, H302
(CLP), M-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.

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.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Extinction powder

Water jet spray / alcohol resistant foam

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop Oxides of carbon

Oxides of sulphur

5.3 Advice for firefighters

For personal protective equipment see Section 8. 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

6.1.1 For non-emergency personnel In case of spillage or accidental release, wear personnel nal protective equipment as specified in section 8 to

prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder product

Leave the danger zone if possible, use existing emergency plans if necessary. Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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



Page 2 of 8 PNEC 6,6 Environment mg/l Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0008 sewage treatment entspr plant echen Revision date / version: 17.1.2021 / 0007 Replacing version dated / version: 17.03.2021 / 0007 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO HD-100.110 Silantri ol (Hydro COSMO HD-100.112 lyspro dukt) COSMO HD-100.114 (COSMOHYBRID 490) Environment -1,5 mg/kg dw Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and sediment, freshwater entspr dispose of according to Section 13 echen Or:
Pick up mechanically and dispose of according to Section 13. des Silantri 6.4 Reference to other sections (Hydro For personal protective equipment see Section 8 and for disposal instructions see Section 13. lyspro dukt) **SECTION 7: Handling and storage** ermitte PNEC In addition to information given in this section, relevant information can also be found in section 8 and 6.1. Environment 0,15 mg/kg 7.1 Precautions for safe handling sediment, marine entspr echen 7.1.1 General recommendations des Ensure good ventilation. Silantri Avoid contact with eyes. Avoid long lasting or intensive contact with skin. (Hydro Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. lyspro dukt) 7.1.2 Notes on general hygiene measures at the workplace ermitte 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. PNEC Environment - soil mg/kg dw entspr echen 7.2 Conditions for safe storage, including any incompatibilities des Silantri Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. (Hydro Store cool.
Store in a dry place lyspro dukt) ermitte 7.3 Specific end use(s) Short term, systemic effects Long term, Human - derma DNEL 0,1 Consumer mg/kg SECTION 8: Exposure controls/personal protection bw/day mg/kg DNEL Consumer Human - derma systemic effects bw/day Long term, systemic effects Long term, systemic effects Short term, DNEL Consume Human - inhalation 0.7 mg/m3 8.1 Control parameters DNFI Consume Human - oral 0.1 mg/kg The methanol listed below can arise upon contact with water

B Chemical Name Calcium carbonate bw/day mg/m3 DNEL 93.4 Human - inhalation Consumer Content (B) systemic effects Long term, DNFL WEL-TWA: 4 mg/m3 (respirable dust), Workers / Human - dermal 0.2 ma/ka WEL-STEL: -systemic effects
Long term,
systemic effects
Short term, employees Workers / 10 mg/m3 (total inhalable dust) bw/day mg/m3 Human - inhalation DNFI 2,6 Monitoring procedures: Other information: employees Workers / Human - inhalation DNEL 4,9 mg/m3 (B) Chemical Name Content employees systemic effects WEL-TWA: 200 ppm (266 mg/m3) (WEL), 200 ppm (260 mg/m3) (EU) Monitoring procedures: WEL-STEL: 250 ppm (333 mg/m3 (WEL)
Draeger - Alcohol 25/a Methanol (81 01 631) 3-(trimethoxysilyl)propylamine Exposure route Effect on Unit Note Valu Descri Environmental health ptor Compur - KITA-119 SA (549 657)

DFG Meth. Nr. 6 (D) (Loesungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project

BC/CEN/ENTR/000/2002-16 card 65-1 (2004)

NIOSH 2000 (METHANOL) - 1998

NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS compartment Environment -PNEC mg/l freshwater Environment PNEC 0,03 mg/l marine Environment PNFC mg/l water, sporadic (intermittent) release (SCREENING)) - 1996 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016
Draeger - Alcohol 100/a (CH 29 701)
Other information: Sk (WEL, EU) PNEC Environment mg/kg sediment, freshwater dry BMGV: Environment PNEC 0.12 dry weight Trimethoxyvinylsilane
Area of application Environment - soi PNEC mg/kg dry Exposure route / Effect on Descri Valu Unit Note weight mg/l Environmental health Environment -sewage treatment compartment -PNEC 13 PNEC 0.4 ma/ entspr echen des freshwater plant Human - inhalation Short term, DNEL 17,4 Consume mg/m3 systemic effects Short term, DNEL Silantri Consumer Human - dermal 5 ma/ka systemic effects
Long term,
systemic effects
Long term, bw/day mg/m3 (Hvdro Human - inhalation DNEL 17 Consume Human - dermal DNEL Consumer mg/kg ermitte systemic effects bw/day Long term, systemic effects Short term, mg/kg bw/day mg/m3 Consume Human - oral DNFI PNEC 0,04 Environment mg/ Für marine entsni Workers / DNFI 17 4 echen systemic effects Short term, employees Workers / des Silantri DNEL 8,3 mg/kg Human - dermal systemic effe employees Workers / bw/day mg/m3 Human - inhalation DNFI 58 systemic effects
Long term, employees Workers / (Hydro lyspro dukt) Human - derma DNEL 8,3 mg/kg systemic effects employees PNEC 2.4 Für Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate Environment mg/ water, sporadio entspi Effect on Unit Area of application Exposure route Descri Valu Note des Silantri **Environmental** ptor compartment Environment -PNE 0.00 mg/ (Hvdro freshwater Environment 004 lyspro dukt) ermitte mg/ marine PNEC Environment -0.61 mg/l water, sporadio

(intermittent) release



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	Environment -		PNEC	504.	mg/kg
	sediment, freshwater			4	dry
					weight
	Environment -		PNEC	50,4	mg/kg
	sediment, marine			4	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,	DNEL	0,03	mg/kg
		systemic effects		3	body weight/ day
Consumer	Human - oral	Long term,	DNEL	0.00	mg/kg
		systemic effects		3	body
		.,			weight/
					day
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3
employees		systemic effects			
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,07	mg/kg bw/day

0-1-1													
Calcium carbonate													
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note							
	Environmental compartment	health	ptor	е									
	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								
Consumer	Human - oral	Short term, systemic effects	DNEL	6,1	mg/kg bw/day								
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	Descri ptor	Valu e	Unit	Note
	Environment -		PNEC	154		
	freshwater		PINEC	154	mg/l	
	Environment -		PNEC	15.4	mg/l	
	marine		FINEC	15,4	IIIg/I	
	Environment -		PNEC	570.	mg/kg	
	sediment, freshwater		FINEC	4	ilig/kg	
	Environment -		PNEC	57.0	mg/kg	
	sediment, marine		TIVEC	4	mg/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment -		PNEC	154	mg/l	
	water, sporadic		TIVEC	0	mg/i	
	(intermittent) release			١		
	Environment -		PNEC	100	mg/l	
	sewage treatment		TIVEC	100	mg/i	
	plant					
Consumer	Human - inhalation	Long term,	DNEL	50	mg/m3	
		local effects	DIVLL	00	/ilg/illo	
Consumer	Human - inhalation	Short term.	DNEL	50	mg/m3	
Consumer	Tidilian illiaddon	local effects	DIVEL	- 50	mg/mo	
Consumer	Human - dermal	Short term.	DNEL	8	mg/kg	
Consumer	Tidilian delilia	systemic effects	DIVEL		body	
		Systemic chects			weight/	
					dav	
Consumer	Human - inhalation	Short term.	DNEL	50	mg/m3	
Consumer	Tidilian illiaddon	systemic effects	DIVEL	- 50	mg/mo	
Consumer	Human - oral	Short term,	DNEL	8	mg/kg	
00110011101	Transact oral	systemic effects	5.122		body	
		Systemic chools			weight/	
					day	
Consumer	Human - dermal	Long term,	DNEL	8	mg/kg	
Consumer	Tidilian delilia	systemic effects	DIVEL	١	body	
		Cycloniic Circulo			weight/	
					day	
Consumer	Human - inhalation	Long term.	DNEL	50	mg/m3	
Consumer	Tidilian illiaddon	systemic effects	DIVEL	- 50	mg/mo	
Consumer	Human - oral	Long term,	DNEL	8	mg/kg	
		systemic effects		-	body	
		Systemic chools			weight/	
					day	
Workers /	Human - dermal	Short term.	DNEL	40	mg/kg	
employees		systemic effects			body	
		-,			weight/	
					day	
Workers /	Human - inhalation	Short term.	DNEL	260	mg/m3	
employees		systemic effects			5 -	
Workers /	Human - inhalation	Short term.	DNEL	260	mg/m3	
employees		local effects				
Workers /	Human - dermal	Long term,	DNEL	40	mg/kg	
employees		systemic effects			body	
_F , 000		2,31011110 0110010			weight/	
					dav	
Workers /	Human - inhalation	Long term,	DNEL	260	mg/m3	
employees		systemic effects	DIVLL	200	/ilg/illo	
Workers /	Human - inhalation	Long term,	DNEL	260	mg/m3	
employees		local effects	DITLL	200	ang/ind	

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 204/37/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 creatine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(Linecuive 2004/37/LE). | WELFSTEL = 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.

Eve/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374). Recommended

Protective nitrile gloves (EN ISO 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 The breakthrough times determined in accordance with EN 10323-1 were 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).

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 pro-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour: Pastelike, Liquid According to specification Odour: Characteristic There is no information available on this parameter

Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit:

Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature:

Kinematic viscosity:

Vapour pressure:
Density and/or relative density:
Relative vapour density:
Particle characteristics:

Solubility:
Partition coefficient n-octanol/water (log value):

9.2 Other information

Explosives

Aerosols - Chemical heat of combustion: Oxidising liquids: Evaporation rate: Molar mass: Metal content:

There is no information available on this parameter. No

Insoluble

Does not apply to mixtures

Does not apply to liquids.

Product is not explosive

There is no information available on this parameter. There is no information available on this parameter. Combustible.

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter. Mixture is non-soluble (in water).

There is no information available on this parameter.

There is no information available on this parameter. ~1,6 g/cm3 (20°C)
There is no information available on this parameter.

n.a.
There is no information available on this parameter.
There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity

roduct has not been tested

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions



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reacts with water 10.4 Conditions to avoid

See also section 7. Strong heat Moisture

10.5 Incompatible materials
See also section 7.
None known

10.6 Hazardous decomposition products

See also section 5.2 In case of contact with water: Methanol

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Possibly more information on health effects, see Section 2.1 (classification).
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Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			calculat value, Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:					OECD 429 (Skin Sensitisation - Local Lymph Node Assav)	No (skir contact) Expert judgeme
Germ cell mutagenicity:					,	n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	7120	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by inhalation:	LD50	2773	ppm/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Slightly irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens. 1B
Germ cell mutagenicity:				- 2 19	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:					ĺ	Negative
Symptoms:						drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	62,5	mg/k g	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/De velopm. Tox. Screening Test)	Target organ(s): bladder

Specific target organ	NOAE	0,058	mg/l	Rat	OECD 413	Vapours
toxicity - repeated	С				(Subchronic	
exposure (STOT-RE),					Inhalation	
inhalat.:					Toxicity - 90-Day	
					Study)	

			1		Siudy)	
3-(trimethoxysilyl)propy	/lamine					
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>10000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Dam. 1
Respiratory or skin				Guinea	OECD 406 (Skin	No (skin
sensitisation:				pig	Sensitisation)	contact)
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mammali an	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Mammali an	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOAE L	200	mg/k g	Rat	OEĆD 414 (Prenatal Developmental Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	200	mg/k g	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAE L	600	mg/k g	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Target organ(s): liver, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	147	mg/m 3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	Aerosol

Bis(1,2,2,6,6-pentameth hydroxyphenyl]methyl]						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	1490	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>3170	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	> 460	mg/m 3/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritan
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritan
Respiratory or skin sensitisation:				Guinea pig		Not sensitizisii q
Germ cell mutagenicity:				Salmonel la typhimuri um	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negativete st species Chinese hamster
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Positivete: species: Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:	NOAE L	>= 10	mg/k g bw/d	Rat	OECD 421 (Reproduction/D evelopmental Toxicity Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s): lymph nodes, liver, spleen



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PDF print date: 01.11.2021
COSMO HD-100.110
COSMO HD-100.1112
COSMO HD-100.1114 (COSMOHYBRID 490) Aspiration hazard:

Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	2	mg/k g bw/d	Rat		test guideline: OECD 421
Calcium carbonate						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral	LD50	>2000	mg/k	Rat	OECD 420	
route:			g		(Acute Oral	
					toxicity - Fixe	
					Dose Procedure)	
Acute toxicity, by	LD50	>2000	mg/k	Rat	OECD 402	

	int			m		
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity:	NOEL	1000	mg/k g bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/De velopm. Tox. Screening Test)	
Specific target organ toxicity - single exposure (STOT-SE):						No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):						No indications of such an effect.
Aspiration hazard:						No
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	1000	mg/k g bw/d	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the	

Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	0,212	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	
Methanol						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	ATE	300	mg/k g	Human being		Experience s on persons.
Acute toxicity, by dermal route:	LD50	17100	mg/k g	Rabbit		Does not conform with EU classificatio n.
Acute toxicity, by inhalation:	LC50	85	mg/l/ 4h	Rat		Not relevant for classificatio n., Vapours
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)

mg/l

Rat

Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:

NOAE C

0,212

the
Reproduction/De
velopm. Tox.
Screening Test)
OECD 413

Germ cell mutagenicity:				Salmonel la	OECD 471 (Bacterial	Negative
				typhimuri um	Reverse Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:				Mouse	OEĆD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Negative
Reproductive toxicity:	NOAE L	1,3	mg/l	Mouse	OECD 416 (Two- generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAE L	0,13	mg/l	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	
Symptoms:						abdominal pain, vomiting, headaches, gastrointes tinal disturbance s, visual disturbance s, watering eyes, nausea, mental confusion, intoxication , dizziness

11.2. Information on other hazards

COSMO HD-100.110 COSMO HD-100.112 COSMO HD-100.114

(COSMOHYBRID 490)						
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Endocrine disrupting						Does not
properties:						apply to
						mixtures.
Other information:						No other
						relevant
						information
						available
						on adverse
						effects on
			1			health.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).
COSMO HD-100.110
COSMO HD-100.112
COSMO HD-100.114

	(COSMONYBRID 490)								
	Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	
		t	е	е			method		
	12.1. Toxicity to							n.d.a.	
	fish:								
	12.1. Toxicity to							n.d.a.	
	daphnia:								
	12.1. Toxicity to							n.d.a.	
	algae:								
	12.2.							n.d.a.	
	Persistence and								
	degradability:								
	12.3.							n.d.a.	
	Bioaccumulative								
	potential:								
	12.4. Mobility in							n.d.a.	
	soil:								
	12.5. Results of							n.d.a.	
	PBT and vPvB								
	assessment								
	12.6. Endocrine							Does not	
	disrupting							apply to	
1	properties:							mixtures.	
ł	12.7. Other							n.d.a.	
	adverse effects:								

	_								
Trimethoxyvinylsilane									
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes		
	t	е	е			method			
12.1. Toxicity to	LC50	96h	191	mg/l	Oncorhynch	OECD 203			
fish:					us mykiss	(Fish, Acute			
						Toxicity			
						Test)			
12.1. Toxicity to	EC50	48h	169	mg/l	Daphnia	OECD 202			
daphnia:				_	magna	(Daphnia			
						sp. Acute			
						Immobilisati			
						on Test)			
12.1. Toxicity to	NOEC/N	21d	28	mg/l	Daphnia	OECD 211			
daphnia:	OEL				magna	(Daphnia			
						magna			
						Reproductio			
						n Test)			
12.1. Toxicity to	EC50	72h	>10	mg/l	Selenastrum	OECD 201			
algae:			0		capricornut	(Alga,			
					um	Growth			
						Inhibition			
		1	I	l		Test)			



_															
GB) Page 6 of 8 Safety data sheet a	acceding to D		(FC) No	1007/200/	C Amery II			12.2.		28d	1 - 2	%	activated	OECD 301	Not readily
Revision date / vers Replacing version of Valid from: 01.11.2 PDF print date: 01.	sion: 01.11.20 dated / versior 021	21 / 000	8		o, Annex II			Persistence and degradability:					sludge	B (Ready Biodegradab ility - Co2 Evolution Test)	biodegrada ble
COSMO HD-100.1	10							12.3.	BCF		24,3			OECD 305	conc. in
COSMO HD-100.1								Bioaccumulative potential:			-340			(Bioconcentr ation - Flow-	evironment: 0,01 ppm
(COSMOHYBRID 4	190)													Through Fish Test)	
12.1. Toxicity to	NOEC/N	72h	25	mg/l	Selenastrum			12.3. Bioaccumulative	BCF		49,3 -437			OECD 305 (Bioconcentr	conc. in evironment:
algae:	OEL	28d	51	g %	capricornut	OECD 301	Not readily	potential:			,1			ation - Flow- Through Fish Test)	0,1 ppm
Persistence and degradability:				, ,		F (Ready Biodegradab	biodegrada ble	Toxicity to bacteria:	IC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated	
acgradability.						ility - Manometric Respirometr y Test)	DIC .	bacteria.					Siddge	Sludge, Respiration Inhibition Test	
12.2. Persistence and		28d	51	%		OECD 301 F (Ready	Readily biodegrada							(Carbon	
degradability:						Biodegradab	ble							Ammonium	
						ility - Manometric								Oxidation))	
						Respirometr y Test)		Calcium carbonat Toxicity / effect	e Endpoin	Tim	Valu	Unit	Organism	Test	Notes
Toxicity to bacteria:	EC50	3h	>25 00	mg/l	activated sludge	OECD 209 (Activated		12.1. Toxicity to	t LC50	e 96h	е		Oncorhynch	method OECD 203	No
					anaga .	Sludge, Respiration Inhibition Test (Carbon and		fish:					us mykiss	(Fish, Acute Toxicity Test)	observation with saturated solution of test material.
						Ammonium Oxidation))		12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia	No observation
12.5. Results of PBT and vPvB							No PBT substance,						_	sp. Acute Immobilisati	with saturated
assessment							No vPvB substance							on Test)	solution of test
3-(trimethoxysilyl)	propylamine							12.1. Toxicity to	EC50	72h	>14	mg/l	Desmodesm	OECD 201	material.
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes	algae:				_	us subspicatus	(Alga, Growth	
12.1. Toxicity to fish:	LC50	96h	>93	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute	Analogous conclusion						Gabopicatao	Inhibition Test)	
non.			"		Terio	Toxicity	CONCIUSION	12.1. Toxicity to	NOEC/N	72h	14	mg/l	Desmodesm	OECD 201	
12.1. Toxicity to daphnia:	EC50	48h	331	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute	Analogous conclusion	algae:	OEL				us subspicatus	(Alga, Growth Inhibition Test)	
						Immobilisati		12.2. Persistence and						1630	Not relevant
12.1. Toxicity to algae:	EC50	72h	>10 00	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition	Analogous conclusion	degradability:							for inorganic substances
12.2.		28d	67	%		Test) Regulation	Not readily	12.3. Bioaccumulative							Not to be expected
Persistence and degradability:						(EC) 440/2008	biodegrada ble,	potential: 12.4. Mobility in							n.a.
,						C.4-A (DETERMIN ATION OF	Analogous conclusion	soil: 12.5. Results of PBT and vPvB							No PBT substance,
						'READY' BIODEGRA		assessment							No vPvB substance
						DABILITY - DOC DIE- AWAY		Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge,	Substance
12.3.						TEST)	No							Respiration Inhibition	
Bioaccumulative potential:														Test (Carbon	
12.4. Mobility in soil:							Slight							and Ammonium	
12.5. Results of PBT and vPvB							No PBT substance,	Toxicity to	NOEC/N	3h	100	mg/l	activated	Oxidation)) OECD 209	
assessment							No vPvB substance	bacteria:	OEL	0	0	gr.	sludge	(Activated Sludge,	
Toxicity to bacteria:	EC50		340 0	mg/l	activated		Cubotanoo							Respiration Inhibition	
Toxicity to	EC10		13	mg/l	Pseudomon		References							Test	
bacteria:					as putida		, Analogous							(Carbon and	
							conclusion 5,75 h							Ammonium Oxidation))	
Toxicity to bacteria:	EC50		43	mg/l	Pseudomon as putida		Analogous conclusion 5,75 h	Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants,	Glycine max
Bis(1,2,2,6,6-penta			[3,5-bis(1	,1-dimeth	ylethyl)-4-									Growth Test)	
hydroxyphenyl]me Toxicity / effect	ethyl]butylma Endpoin	Ionate Tim	Valu	Unit	Organism	Test	Notes	Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial	Lycopersic on
12.5. Results of	t	е	е		_	method	No PBT							Plants, Growth	esculentum
PBT and vPvB assessment							substance, No vPvB substance	Other organisms:	EC50	21d	>10 00	mg/k g dw		Test) OECD 208 (Terrestrial	Avena sativa
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity								Plants, Growth Test)	
12.1. Toxicity to daphnia:	LOEC/L OEL	21d	6,4	μg/l	Daphnia magna	Test) OECD 211 (Daphnia		Other organisms:	NOEC/N OEL	21d	100	mg/k g dw		OECD 208 (Terrestrial Plants, Growth	Glycine max
12.1 Tavialt	NOTO'N	04.1		1.00	Donkeis	magna Reproductio n Test)		Other organisms:	NOEC/N OEL	21d	100 0	mg/k		Test) OECD 208 (Terrestrial	Lycopersic on
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	2	µg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)			JEL		0	g dw		Plants, Growth Test)	esculentum
12.1. Toxicity to	EC50	72h	61	mg/l	Scenedesm										
algae:					us subspicatus										



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Methanol

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Other organisms:	NOEC/N	21d	100	mg/k		OECD 208	Avena
	OEL		0	g dw		(Terrestrial	sativa
				-		Plants,	
						Growth	
						Test)	
Other organisms:	EC50	14d	>10	mg/k	Eisenia	OECD 207	
_			00	g dw	foetida	(Earthworm,	
						Acute	
						Toxicity	
						Tests)	
Other organisms:	NOEC/N	14d	100	mg/k	Eisenia	OECD 207	
	OEL		0	g dw	foetida	(Earthworm,	
						Acute	
						Toxicity	
						Tests)	
Other organisms:	EC50	28d	>10	mg/k		OECD 216	
			00	g dw		(Soil	
						Microorganis	
						ms -	
						Nitrogen	
						Transformati	
						on Test)	
Other organisms:	NOEC/N	28d	100	mg/k		OECD 216	
	OEL		0	g dw		(Soil	
						Microorganis	
						ms -	
						Nitrogen	
						Transformati	
147			0.04			on Test)	2002
Water solubility:			0,01	g/l		OECD 105	20°C
			66			(Water	
						Solubility)	

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.5. Results of							No PBT
PBT and vPvB							substance, No vPvB
assessment							substance
12.1. Toxicity to	LC50	96h	154	mg/l	Lepomis		EPA-660/3-
fish:	1 2030	3011	00	1119/1	macrochirus		75-009
12.1. Toxicity to	EC50	96h	182	mg/l	Daphnia	OECD 202	70 000
daphnia:			60		magna	(Daphnia	
· .						sp. Acute	
						Immobilisati	
						on Test)	
12.1. Toxicity to	EC50	96h	220	mg/l	Pseudokirch	OECD 201	
algae:			00		neriella	(Alga,	
					subcapitata	Growth Inhibition	
						Test)	
12.2.		28d	99	%		OECD 301	Readily
Persistence and		200	33	/0		D (Ready	biodegrada
degradability:						Biodegradab	ble
,						ility - Closed	
						Bottle Test)	
12.3.	BCF		284		Chlorella		Not to be
Bioaccumulative			00		vulgaris		expected
potential:							
Toxicity to	IC50	3h	>10	mg/l	activated	OECD 209	
bacteria:			00		sludge	(Activated	
						Sludge, Respiration	
						Inhibition	
						Test	
						(Carbon	
						and	
						Ammonium	
						Oxidation))	
Other	Log Pow		-				
information:			0,77				
Other	DOC		<70	%			
information: Other	BOD		>60	%			
information:	מטם		>00	70			
milornation.	1				1	l	

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 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

n.a.

General statements

14.1. UN number or ID number

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:
14.3. Transport hazard class(es): n.a n.a. n.a. n.a. 14.4. Packing group: Classification code: I O

14.5. Environmental hazards: Not applicable Tunnel restriction code

Transport by sea (IMDG-code)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: Marine Pollutant: n.a.

14.5. Environmental ha 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. Not applicable 14.5. Environmental hazards:

14.6. Special precautions for user

ecified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments Non-dangerous material according to Transport Regulat

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment

Directive 2010/75/EU (VOC):

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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 (EC) No. 1272/2008 (CLP)	Evaluation method used
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.

Eye Irrit. — Eye irritation

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

Key literature references and sources

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended Guidelines on labelling and packaging accurating to the regulation (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water

German Environment Agency Togorical Management (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif

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

Advantage organic natogen compounds approx mapprox 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)
BCF Bioconcentration factor BCF BSEF The International Bromine Council



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CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC Eu European Community ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances ELINCS European Norms
United States Environmental Protection Agency (United States of America)

ErLx (x = 10, 50)

Effect Concentration/Level of x % on inhibition of the growth rate EPA ErCx, EµCx, ErLx (x = 10, 50)
(algae, plants)
etc. et cetera EU European Union EVAL Fax. Ethylene-vinyl alcohol copolymer Fax number gen. GHS GWP general
Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential Adsorption coefficient of organic carbon in the soil Koc Kow octanol-water partition coefficient 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. IUCLID including, inclusive International Uniform Chemical Information Database International Union for Pure Applied Chemistry
Lethal Concentration to 50 % of a test population
Lethal Dose to 50% of a test population (Median Lethal Dose) IUPAC LC50 LD50 Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable n.av. not applicable n.c. not checked n.d.a. NIOSH NLP no data available National Institute for Occupational Safety and Health (USA) NIDS No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development OECD org. OSHA organic Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration PBT PE PNEC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
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No. or other numerical identifiers. 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 ferrovisire de massivation. ppm PVC parts per million RED Réglement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds Volatile organic compounds very persistent and very bioaccumulative wet weight vPvB The statements made here should describe the product with regard to the necessary safety precautions - they not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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