

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.09.2022 / 0007

Revision 12.09-2022 / 00007 Replacing version dated / version: 01.11.2021 / 0006 Valid from: 12.09-2022 PDF print date: 18.10.2022 COSMO® HD-100.402 COSMO© HD-100.541

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-100.402** COSMO© HD-100.541

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

Relevant identified uses of the substance or mixture:

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

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)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements

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

EUH208-Contains Trimethoxyvinylsilane. May produce an allergic reaction EUH210-Safety data sheet available on request.

2.3 Other hazards

Z.3 OTHER TAZATOS

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

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	Flam. Liq. 3, H226
(CLP), M-factors	Acute Tox. 4, H332
	Skin Sens 1B H317

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

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

temove person from danger area.

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

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

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

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

Ingestion

Rinse the mouth thoroughly with water. Give copious water to drink - 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

Extinction powder

Water jet spray
Large fire:
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 deve

Oxides of carbon

Oxides of nitrogen

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 personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

6.2 ENVIRONMENTAL PROGRAMMENTS
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, diato ous earth, sawdust) and

dispose of according to Section 13.

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

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
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)

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

The methanol listed below can arise upon contact with water.

Chemical Name

Disconoryl phthalate

WEL-TWA: 5 mg/m3		WEL-STEL:		
Monitoring procedures:				
BMGV:			Other information	n:
(GB) Chemical Name	Calcium c	arbonate		
WEL-TWA: 4 mg/m3 (respire	able dust),	WEL-STEL:		
10 mg/m3 (total inhalable dus	:)			
Monitoring procedures:				
BMGV/·			Other information	n·

BMGV: Other information:	
(GB) Chemical Name Methanol	
WEL-TWA: 200 ppm (266 mg/m3) WEL-STEL: 250 ppm (333 mg/m3	
(WEL), 200 ppm (260 mg/m3) (EU) (WEL)	



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Monitoring procedures

Draeger - Alcohol 25/a Methanol (81 01 631) Compur - KITA-119 SA (549 640) Compur - KITA-119 U (549 657) DFG Meth. Nr. 6 (D) (Losungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project

(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
(SCREENING)) - 1996
NIOSH 3500 (ORGANIC AND INORGANIC GASES BY
EXTRACTIVE FTIR SPECTROMETRY) - 2016
Draeger - Alcohol 100/a (CH 29 701)
Other information: Sk (WEL, EU) BMGV:

Trimethoxyvinylsilan Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
Area or application	Environmental compartment	health	ptor	e	Oille	Note
	Environment -		PNEC	0,4	mg/l	Für
	freshwater				-	entspr echen
						des
						Silantr
						ol (Hydro
						lyspro
						dukt) ermitte
						lt.
	Environment -		PNEC	0,04	mg/l	Für
	marine					entspr echen
						des
						Silantri
						(Hydro
						lyspro dukt)
						ermitte
	Environment -		PNEC	2,4	mg/l	lt. Für
	water, sporadic		FINEC	2,4	ilig/i	entspr
	(intermittent) release					echen des
						Silantr
						ol
						(Hydro lyspro
						dukt)
						ermitte It.
	Environment -		PNEC	6,6	mg/l	Für
	sewage treatment plant					entspr echen
	plant					des
						Silantr
						ol (Hydro
						lyspro
						dukt) ermitte
						lt.
	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw	Für entspr
	sediment, ireshwater				uw	echen
						des Silantr
						ol
						(Hydro
						lyspro dukt)
						ermitte
	Environment -		PNEC	0,15	mg/kg	lt. Für
	sediment, marine			-,	dw	entspr
						echen des
						Silantr
						ol (Hydro
						lyspro
						dukt)
						ermitte It.
	Environment - soil		PNEC	0,06	mg/kg	Für
					dw	entspr echen
						des
						Silantr
						(Hydro
						lyspro dukt)
						ermitte
Consumer	Human - dermal	Short term,	DNEL	0,1	mg/kg	lt.
		systemic effects			bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term,	DNEL	0,7	mg/m3	
Consumer	Human - oral	systemic effects Long term,	DNEL	0,1	mg/kg	
Consumer	Human - inhalation	systemic effects Short term,	DNEL		bw/day	
		systemic effects		93,4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
opioyees	1	Jysiciiilo Ellecis			Div/uay	

Workers /	Human - inhalation	Long term,	DNEL	2,6	mg/m3	
employees		systemic effects				
Workers /	Human - inhalation	Short term,	DNEL	4,9	mg/m3	
emplovees		systemic effects				

Diisononyl phthalate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - soil		PNEC	30	mg/kg	
	Environment - oral (animal feed)		PNEC	150	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	15,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	220	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,4	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	366	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	51,7 2	mg/m3	

Calcium carbonate						
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	е		
	compartment					
	Environment -		PNEC	100	mg/l	
	sewage treatment					
	plant					
Consumer	Human - oral	Long term,	DNEL	6,1	mg/kg	
		systemic effects			bw/day	
Consumer	Human - inhalation	Long term,	DNEL	10	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Long term,	DNEL	1,06	mg/m3	
		local effects				
Consumer	Human - oral	Short term,	DNEL	6,1	mg/kg	
		systemic effects			bw/day	
Workers /	Human - inhalation	Long term,	DNEL	4,26	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Long term,	DNEL	10	mg/m3	
employees		systemic effects				

Methanol Area of application	Fymanium maiste '	Effect on	Descri	Valu	Unit	Note
Area of application	Exposure route / Environmental	health	ptor	vaiu e	Unit	Note
	compartment	neaith	ptor	е		
	Environment -		PNEC	154	mg/l	
	freshwater		TIVEC	134	mg/i	
	Environment -		PNEC	15,4	mg/l	
	marine		TIVEC	15,4	mg/i	
	Environment -		PNEC	570.	mg/kg	
	sediment, freshwater		11420	4	mg/kg	
	Environment -		PNEC	57.0	mg/kg	
	sediment, marine		TIVEC	4	ilig/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment -		PNEC	154	mg/l	
	water, sporadic		TIVEC	0	1119/1	
	(intermittent) release			١		
	Environment -		PNEC	100	ma/l	
	sewage treatment		11420	100	g/.	
	plant					
Consumer	Human - inhalation	Long term,	DNEL	26	mg/m3	
Consumor	Tidinan iinaadion	local effects	DIVEL		mg/mo	
Consumer	Human - inhalation	Short term.	DNEL	26	mg/m3	
Consumer	Tidilian - ililialation	local effects	DIVLL	20	mg/ms	
Consumer	Human - dermal	Short term.	DNEL	4	ma/ka	
Consumor	Tidinan deimai	systemic effects	DIVEL	٦	bw/day	
Consumer	Human - inhalation	Short term.	DNFI	26	mg/m3	
Consumor	Tidinan iinaadion	systemic effects	DIVEL		mg/mo	
Consumer	Human - oral	Short term.	DNEL	4	mg/kg	
Concurror	Traman oran	systemic effects	5.122	•	bw/dav	
Consumer	Human - dermal	Long term.	DNEL	4	mg/kg	
Concumor	Traman doma	systemic effects	0.122	٠ ا	bw/day	
Consumer	Human - inhalation	Long term,	DNEL	26	mg/m3	
		systemic effects				
Consumer	Human - oral	Long term.	DNEL	4	ma/ka	
		systemic effects		.	bw/dav	
Workers /	Human - dermal	Short term.	DNEL	20	ma/ka	
employees		systemic effects			bw/dav	
Workers /	Human - inhalation	Short term.	DNEL	130	mg/m3	
employees		systemic effects			J -	
Workers /	Human - inhalation	Short term.	DNEL	130	mg/m3	
employees		local effects				
Workers /	Human - dermal	Long term,	DNEL	20	ma/ka	
employees		systemic effects			bw/day	
Workers /	Human - inhalation	Long term.	DNEL	130	mg/m3	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	130	mg/m3	
employees		local effects				

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) E140. 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 CG reatelinie in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(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 E440. BGW = "Biological med Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Care = 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.



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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 ISO 374). Recommended

Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm:

Permeation time (penetration time) in minutes:

> 120 Protective hand cream recommended.

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

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

Respiratory protection: Normally not necessary

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.

segrature in 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

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

Not combustible.

Does not apply to mixtures

1,49 g/cm3

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.

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 There is no information available on this parameter

There is no information available on this parameter.

#### 9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and of Physical state:
Colour:
Odour:
Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit:
Upper explosion limit:
Flash point: Black There is no information available on this parameter.

Flash point: Auto-ignition temperature: Decomposition temperature:

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

Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics: e is no information available on this parameter. Does not apply to liquids.

9.2 Other information

Explosives: Oxidising liquids: Bulk density:

**SECTION 10: Stability and reactivity** 

#### 10.1 Reactivity

#### 10.2 Chemical stability

with proper storage and handling.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

In case of contact with w Methanol

**SECTION 11: Toxicological information** 

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

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Possibly more information on health effects, see Section 2.1 (classification) COSMOe HD-100.402

Toxicity / effect	Endpo	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:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:					OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact), Expert judgement
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.
Trimethoxyvinylsilane						
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 dermal route:	LD50	3200	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	16,8	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
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)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin				Guinea	OECD 406 (Skin	Skin Sens.
sensitisation:				pig	Sensitisation)	1B
Germ cell					OECD 476 (In Vitro	Negative Chinese
muiadenicity:	1		1	1	I VIITO	i Uninese

	Int			m		
Acute toxicity, by oral route:	LD50	7120	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	3200	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	16,8	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
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)	Not 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:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negative
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAE L	1000	mg/k g	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/De velopm. Tox. Screening Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOAE L	>= 75	mg/k g	Rabbit	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAE L	0,58	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Vapours
Symptoms:						drowsiness , dizziness, nausea, abdominal pain, breathing difficulties, visual disturbance s
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

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	>10000	mg/k	Rat	OECD 401	
route:			g		(Acute Oral	
					Toxicity)	
Acute toxicity, by	LD50	>3160	mg/k	Rabbit		
dermal route:			g			
Acute toxicity, by	LC50	>4,4	mg/l/	Rat	Limit-Test	Aerosol
inhalation:			4h			

Diisononyl phthalate



exposure (STOT-SE):  Specific target organ toxicity - repeated						of such an effect. No indications	12.1. Toxicity to algae: 12.2. Persistence and						n.d.a. n.d.a.
Specific target organ toxicity - single					Screening Test)	No indications	fish: 12.1. Toxicity to daphnia:						n.d.a.
					the Reproduction/De velopm. Tox.		Toxicity / effect  12.1. Toxicity to	Endpoin t	Tim V e e	alu Unit	Organism	Test method	Notes n.d.a.
, see a sound of			g bw/d		(Combined Repeated Dose Tox. Study with		Possibly more inform COSMO© HD-100.4 COSMO© HD-100.5	02	ronmental ef	fects, see Se	ction 2.1 (class	ification).	
Reproductive toxicity:	NOEL	1000	mg/k	Rat	OECD 422	of such an effect.		SECT	ION 12:	Ecolog	ical infor	mation	
Carcinogenicity:					Gene Mutation Test)	No indications							effects health.
Germ cell mutagenicity:					Chromosome Aberration Test) OECD 476 (In Vitro Mammalian Cell	Negative	Other information:						No other relevant information available on advertised in the control of the contr
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian	Negative	Endocrine disrupting properties:	int			m		Does n apply to mixture
mutagenicity:					(Bacterial Reverse Mutation Test)	Negative	COSMO© HD-100.4 COSMO© HD-100.5 Toxicity / effect	41 Endpo	Value	Unit	Organis	Test method	Notes
Germ cell					Local Lymph Node Assay) OECD 471	Negative	11.2. Informatio		r hazards	<b>.</b>			, uizzill
damage/irritation:  Respiratory or skin sensitisation:				Mouse	(Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation -	No (skin contact)							nausea mental confusi intoxica , dizzin
corrosion/irritation:				Rabbit	(Acute Dermal Irritation/Corrosio n) OECD 405	Not irritant							, visual disturba s, wate eyes,
Acute toxicity, by inhalation: Skin	LC50	>3	mg/l/ 4h	Rat Rabbit	OECD 403 (Acute Inhalation Toxicity) OECD 404	Not irritant							tinal disturb s, drowsii
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	Dose Procedure) OECD 402 (Acute Dermal Toxicity)								pain, vomitin headad gastro
Acute toxicity, by oral route:	int LD50	>2000	mg/k g	m Rat	OECD 420 (Acute Oral toxicity - Fixe		exposure (STOT-RE	):				Chronic Toxicity/Carcinog enicity Studies)	abdom
Calcium carbonate Toxicity / effect	Endpo	Value	Unit	Organis	Test method	vomiting.	Specific target organ toxicity - repeated	NOAE L	0,13	mg/l	Rat	Reproduction Toxicity Study) OECD 453 (Combined	
Symptoms:						diarrhoea, nausea and	Reproductive toxicity	: NOAE	1,3	mg/l	Mouse	enicity Studies) OECD 416 (Two- generation	
Germ cell mutagenicity:					SENSITISATION ) (Ames-Test)	Negative	Carcinogenicity:				Mouse	OECD 453 (Combined Chronic Toxicity/Carcinog	Negativ
Respiratory or skin sensitisation:				Guinea pig	Regulation (EC) 440/2008 B.6 (SKIN	No (skin contact)						Erythrocyte Micronucleus Test)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant	Germ cell mutagenicity:				typhimuri um Mouse	Reverse Mutation Test) OECD 474 (Mammalian	Negati
corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)		sensitisation: Germ cell mutagenicity:				pig Salmonel la	Sensitisation) OECD 471 (Bacterial	Negati
COSMO© HD-100.402 COSMO© HD-100.541 Skin			1	Rabbit	OECD 404	Not irritant	damage/irritation:  Respiratory or skin				Guinea	(Acute Eye Irritation/Corrosio n) OECD 406 (Skin	No (ski
Replacing version dated Valid from: 12.09.2022 PDF print date: 18.10.20		1.11.2021 /0	0006				Serious eye				Rabbit	OECD 405	classifi n., Vap Not irrit
	12.09.2022	/ 0007		96, Annex II			Acute toxicity, by inhalation:	LC50	85	mg/l/ 4h	Rat		



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Γ	Other organisms:	LC50	14d	>73	mg/k	Eisenia	OECD 207	
ı				72	g	foetida	(Earthworm,	
ı					_		Acute	
ı							Toxicity	
ш							1	

12.1. Toxicity to	EC50	48h	168,	mg/l	Daphnia	Regulation	
daphnia:			7	Ç	magna	(EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILIS ATION TEST)	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	28	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)	
12.1. Toxicity to algae:	EC50	72h	>10 0	mg/l	Selenastrum capricornut um	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	25	mg/l	Selenastrum capricornut um	·	
12.2. Persistence and degradability:	BOD	28d	51	%		OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test)	Not readi biodegrad ble
12.3. Bioaccumulative potential: QSAR	Log Kow		1,1				Not to be expected 20 °C
12.4. Mobility in soil:							Slight
Toxicity to bacteria:	EC50	3h	>25 00	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
Toxicity to bacteria:	EC10	5h	100 0	mg/l	Pseudomon as putida		
Diisononyl phthal	ate						
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
12.1. Toxicity to fish:	LC50	<b>e</b> 96h	<b>e</b> >10 2	mg/l	Brachydanio rerio	method 92/69/EC	

						Toxicity Tests)	
Calcium carbonat							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h			Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	No observation with saturated solution of test material.
12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	No observation with saturated solution of test material.
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	No
12.2. Persistence and degradability:							Not relevant for inorganic substances
12.3. Bioaccumulative potential:							Not to be expected
12.4. Mobility in soil:							n.a.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	NOEC/N OEL	3h	100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersic on esculentum
Other organisms:	EC50	21d	>10 00	mg/k g dw		OEĆD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		OEĆD 208 (Terrestrial Plants, Growth Test)	Lycopersic on esculentum
Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	EC50	14d	>10 00	mg/k g dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	NOEC/N OEL	14d	100	mg/k g dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	EC50	28d	>10 00	mg/k g dw		OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)	

Diisononyl phthala Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
12.1. Toxicity to	t LC50	<b>e</b> 96h	<b>e</b> >10	mg/l	Brachydanio	method 92/69/EC	
fish:	LCSU	9011	2	IIIg/I	rerio	92/09/EC	
12.1. Toxicity to	EC50	48h	>=7	mg/l	Daphnia	84/449/EEC	
daphnia:			4	_	magna	C.2	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>=1 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	NOEC/N OEL	72h	88	mg/l	Scenedesm us subspicatus		
12.1. Toxicity to algae:	EC50	72h	>88	mg/l	Scenedesm us subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	81	%	activated sludge	Regulation (EC) 440/2008 C.4-C (DETERMIN ATION OF 'READY' BIODEGRA DABILITY - CO2 EVOLUTIO N TEST)	Readily biodegrad ble
12.3. Bioaccumulative potential:	Log Kow		8,8- 9,7			OECD 117 (Partition Coefficient (n- octanol/wate r) - HPLC method)	Analogous conclusion
12.3. Bioaccumulative potential:	BCF	14d	<3			,	Analogous conclusion
12.4. Mobility in soil:	Koc		>50 00				
12.4. Mobility in soil:	H (Henry)		0,00 000 149	atm* m3/m ol			
Toxicity to bacteria:	EC50	30m in	>83, 9	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/N OEL	56d	>98 2,4	mg/k g	Eisenia foetida		



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Other organisms:	NOEC/N	28d	100	mg/k	OECD 216	
	OEL		0	g dw	(Soil	
				-	Microorganis	
					ms -	
					Nitrogen	
					Transformati	
					on Test)	
Water solubility:			0,01	g/l	OECD 105 20°C	
·			66		(Water	
					Solubility)	

Methanol								
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	
	t	е	e			method		
12.5. Results of							No PBT	
PBT and vPvB							substance,	
assessment							No vPvB	
							substance	
12.1. Toxicity to	LC50	96h	154	mg/l	Lepomis		EPA-660/3-	
fish: 12.1. Toxicity to	EC50	96h	00 182	mg/l	macrochirus Daphnia	OECD 202	75-009	
daphnia:	EC50	9611	60	mg/i	magna	(Daphnia		
чарініа.			00		magna	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. Persistence and		28d	99	%		OECD 301	Readily	
degradability:						D (Ready Biodegradab	biodegrada ble	
degradability.						ility - Closed	Die	
						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	%	<del>                                     </del>			
information:	BOD		>00	70				
IIIIOIIIIallOII.				L	1			

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

Ed 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 10 waste adhesives and sealants other than those mentioned in 08 04 09

Recommendation:

Recummendation: 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**

Not applicable 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):

14.4. Packing group:
Classification code:
LQ:
14.5. Environmental hazards: Not applicable Not applicable Not applicable Not applicable

Tunnel restriction code: Transport by sea (IMDG-code)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:
Marine Pollutant:
14.5. Environmental hazards Not applicable n.a Not applicable

Transport by air (IATA)

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group: 14.5. Environmental hazards: Not applicable Not applicable

14.6. Special precautions for user

fied otherwise, general measures for safe transpo

# 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulatio

### **SECTION 15: Regulatory information**

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

with national regulations/laws governing maternity protection (national implementation of the Directive

Sacrosciency:

General hygiene measures for the handling of chemicals are applicable.

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2010/75/EU (VOC):

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Classification and processes used to derive the classification of the mixture in

accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable

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.

H332 Harmful if inhaled.

Flam. Liq. — Flammable liquid Acute Tox. — Acute toxicity - inhalation Skin Sens. — Skin sensitization

#### Key literature references and sources

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

Regulation (EG) No 12/12/2006 (CET) as amended. Gouldelines 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 (ECHA). Safety data sheets for the constituent substances.

ECHÁ Homepage - Information about chemicals. GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water

Cultimary).

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

#### Any abbreviations and acronyms used in this document:

., acc. to according, according to

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 Internat

ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM
Testing, Germany)
BAUA
Bundesanstalt für Arbeit
and Safety, Germany)
Bioconcentration factor
The International Bromi BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and rmany)
Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

The International Bromine Council

BSET Ine International Bromine Council
by 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

DNFI 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)

(agae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)

Effect Concentration/Level for x % effect

EEC EINECS

European Economic Community
European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances **ELINCS** 

EN European Norms

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

ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. EU

et cetera European Union Ethylene-vinyl alcohol copolymer Fax number EVAL Fax.

gen. GHS general
Globally Harmonized System of Classification and Labelling of Chemicals

GWP

Global warming potential
Adsorption coefficient of organic carbon in the soil
octanol-water partition coefficient
International Agency for Research on Cancer
International Air Transport Association Koc Kow IARC IATA

IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods

IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive International Uniform Chemical Information Database International Uniform Chemical Information Database International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population Lethal Dose to 50% of a test population (Median Lethal Dose) 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 International Convention for the Prevention of Marine Pollution from Ships



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

National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development org. OSHA PBT organic Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic

PE PNEC

Polyethylene
Predicted No Effect Concentration
parts per million
Polyvinylchloride

ppm PVC REACH

PVC POLYmiylchloride 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)

SUHC

Substances of Very High Concern

Tol Total organic carbon

UN RTDG

United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

very persistent and very bioaccumulative

very persistent and very bioaccumulative wet weight vPvB

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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