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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.05.2022 / 0014

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(COSMOFEN 5)

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® CL-300.110

(COSMOFEN 5)

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:

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 H225-Highly flammable liquid and vapour. Flam. Liq. H319-Causes serious eye irritation. Eye Irrit. STOT SE 3 H336-May cause drowsiness or dizziness.

2.2 Label elements

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





Danger

H225-Highly flammable liquid and vapour. H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P280-Wear protective gloves and eye

protection / face protection. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P338-IF IN EYES: Rinse cautiously with water for minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a P0ISON CENTRE / doctor if you feel unwell. P403+P233-Store in a well-ventilated place. Keep container tightly closed.

EUH066-Repeated exposure may cause skin dryness or cracking.

n-butyl acetate

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

3.2 Mixtures	
Butanone	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	01-2119457290-43-XXXX
Index	606-002-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	201-159-0
CAS	78-93-3
content %	50-70
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

Ethyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119475103-46-XXXX
Index	607-022-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	205-500-4
CAS	141-78-6
content %	20-30
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

n-butyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119485493-29-XXXX
Index	607-025-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	204-658-1
CAS	123-86-4
content %	1-<10
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Flam. Liq. 3, H226
	STOT SE 3, H336

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

If the person is unconscious, place in a stable side position and consult a doctor. Skin contact

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

Eve 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. Headaches

Dizziness

Effects/damages the central nervous system Coordination disorders

Cooldination disorders
Unconsciousness
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 deve

Oxides of carbon Toxic gases

Explosive vapour/air or gas/air mixtures.

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

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

Recording to size of the Full protection, if necessary.

Cool container at risk with water.

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.

Keep non-essential personnel away

Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin.



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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

eous earth) and dispose of Soak up with absorbent material (e.g. universal binding agent, sand, diatoma 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

7.1.1 General recommendations
Avoid inhalation of the vapours.
Ensure good ventilation.
If applicable, suction measures at the workstation or on the processing machine necessary.
Keep away from sources of ignition - Do not smoke.
Take measures against electrostatic charging, if appropriate.

Notice the states against electrostatic charging, it appropriate. Avoid contact with eyes or skin. Handle and open container with care. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing.

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Solvent resistant floor

Protect from direct sunlight and warming. Store cool.
Store in a dry place.

7.3 Specific end use(s) Cleaning product

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Œ	B) Che	emical Name	Butanone				
7	WEL-TW/	A: 200 ppm (600 m	g/m3)	WEL-STEL:	300 ppm	(899 mg/m3)	
(WEL, EU)		(WEL), 300 p	pm (900 m	ıg/m3) (EU)	
	Monitoring	procedures:	-	Compur - KITA-	122 SA(C)	(549 277)	
			-	Compur - KITA-	139 SB (5	49 731)	
			-	Compur - KITA-	139 U (549	9 749)	
ı				DFG MethNr.	4 (D) (Loes	sungsmittelgemisch	e 4), DFG (E)
			-	(Solvent mixture	es 4) - 201	5, 2002	
				İNSHT MTA/MA	A-031/A96	Determination of ke	etones (acetone,
				methyl ethyl ket	one, methy	l isobutyl ketone) ir	n air - Charcoal tube
				method / Gas cl	hromatogra	aphy) - 1996 - EU p	roject
			-	BC/CEN/ENTR	/000/2002-	16 card 105-1 (200-	4)
				MDHS 72 (Vola	tile organic	compounds in air	Laboratory method
						nt tubes, thermal de	
			-	chromatography	/) - 1993		
			-			THYL KETONE) - 1	996
ı						ORGANIC COMPO	
			-	(SCREENING))			
			-	NIOSH 2555 (K) - 2003	
						AND INORGANIC G	SASES BY
			-			TROMETRY) - 201	
			-			(MEK) Hexone (MIE	
E	BMGV:	70 µmol butan-2-one	/I in urine, po	st shift (BMGV)		Other information	n: Sk

(GB) Chemical Name	Ethyl acet	ate		
WEL-TWA: 200 ppm (734	mg/m3)	WEL-STEL: 400 ppm	(1468 mg/m3)	
(WEL, EU)		(WEL, EU)		1
Monitoring procedures:	-	Draeger - Ethyl Acetate 20	0/a (CH 20 201)	
	-	Compur - KITA-111 SA (54	19 160)	
	-	Compur - KITA-111 U(C) (549 178)	
		DFG Meth. Nr. 1 (D) (Loes	ungsmittelgemisch	e 2), DFG (E)
	-	(Solvent mixtures 2) - 1993	3, 2002	
		DFG Meth. Nr. 2 (D) (Loes	ungsmittelgemisch	e 3), DFG (E)
	-	(Solvent mixtures 3) - 2014	1, 2002	
		DFG Meth. Nr. 6 (D) (Loes	ungsmittelgemisch	e 4), DFG (E)
	-	(Solvent mixtures 4) - 2014	1, 2002	
	-	NIOSH 1457 (ETHYL ACE	TATE) - 1994	
		NIOSH 2549 (VOLATILE O	DRGANIC COMPO	UNDS
	-	(SCREENING)) - 1996		
BMGV:			Other information	n:
		<u> </u>		
(GB) Chemical Name	n-butyl ac			
TAIL TMA. 150 ppm (724)	(2)	WELCTEL 200 mmm	(OCC === =/== 2)	

(WEL), 50 ppm (241 mg/m3) (EU)		(WEL), 150 ppm (723 r	ng/m3) (EU)	
Monitoring procedures:	-	Compur - KITA-138 U (54)	8 857)	
	-	Compur - KITA-139 SB(C)	(549 731)	
	-	NIOSH 1450 (ESTERS 1)	- 2003	
		NIOSH 2549 (VOLATILE	ORGANIC COMPO	UNDS
	-	(SCREENING)) - 1996		
		OSHA 1009 (n-Butyl Aceta	ate Isobutyl Acetate	sec-Butyl Acetate
	-	tert-Butyl Acetate) - 2007	•	•
BMGV:		•	Other information	n:

Butanone						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	55,8	mg/l	
	Environment - marine		PNEC	55,8	mg/l	
	Environment - sediment, freshwater		PNEC	284, 74	mg/kg dw	
	Environment - sediment, marine		PNEC	284, 7	mg/kg dw	
	Environment - soil		PNEC	22,5	mg/kg dw	
	Environment - sewage treatment plant		PNEC	709	mg/l	
	Environment - sporadic (intermittent) release		PNEC	55,8	mg/l	
	Environment - oral (animal feed)		PNEC	100 0	mg/kg	
Consumer	Human - dermal	Long term	DNEL	412	mg/kg bw/day	Overall asses ment factor 2
Consumer	Human - inhalation	Long term	DNEL	106	mg/m3	Overal asses ment factor 2
Consumer	Human - oral	Long term	DNEL	31	mg/kg bw/day	Overal asses ment factor 2
Workers / employees	Human - dermal	Long term	DNEL	116 1	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term	DNEL	600	mg/m3	

Area of application	a of application Exposure route / Environmental compartment		Descri ptor	Valu e	Unit	Note
	Environment -		PNEC	0,24	mg/l	
	freshwater		BNEO	0.00		
	Environment -		PNEC	0,02	mg/l	
	marine		51150	4		
	Environment -		PNEC	1,65	mg/l	
	water, sporadic					
	(intermittent) release		51150			
	Environment -		PNEC	1,15	mg/kg	
	sediment, freshwater Environment -		PNEC	0.44		
			PNEC	0,11	mg/kg	
	sediment, marine		DNEO	5		
	Environment - soil		PNEC	0,14 8	mg/kg	
	Environment -		PNEC	650	mg/l	
	sewage treatment					
	plant					
	Environment - oral		PNEC	200	mg/kg	
	(animal feed)					
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg	
Consumer	Human - dermal	Long term,	DNEL	37	mg/kg	
Consumer	Tidinaii deiiiai	systemic effects	DIVLL	0,	mg/kg	
Consumer	Human - inhalation	Long term,	DNEL	367	mg/m3	
		systemic effects			"	
Consumer	Human - inhalation	Long term,	DNEL	367	mg/m3	
		local effects				
Consumer	Human - inhalation	Short term,	DNEL	734	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Short term,	DNEL	734	mg/m3	
		local effects				
Workers /	Human - dermal	Long term,	DNEL	63	mg/kg	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	734	mg/m3	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	734	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Short term,	DNEL	146	mg/m3	
employees		systemic effects		8		
Workers /	Human - inhalation	Short term,	DNEL	146	mg/m3	
employees		local effects		8		

n-butyl acetate Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
Area or application	Environmental compartment	health	ptor	e	Oilit	Note
	Environment - freshwater		PNEC	0,18	mg/l	
	Environment - marine		PNEC	0,01 8	mg/l	
	Environment - periodic release		PNEC	0,36	mg/l	
	Environment - sediment, freshwater		PNEC	0,98 1	mg/kg	
	Environment - sediment, marine		PNEC	0,09 81	mg/kg	
	Environment - soil		PNEC	0,09 03	mg/kg	
	Environment - sewage treatment plant		PNEC	35,6	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	3,4	mg/kg	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	300	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	35,7	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	300	mg/m3	



There is no information available on this parameter.

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Consumer	nsumer Human - inhalation		DNEL	35,7	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	6	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	2	mg/kg bw/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	2	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	600	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	300	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	7	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	11	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	600	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	300	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (19) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (11) = Inhalable fraction (Directive 2004/37/CE), (11) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute

(Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-ferm 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

Applies only il maximum permissione explosure values are inseed nete.

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.

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

Skin protection - Hand protection:

Solvent resistant protection.

Solvent resistant protective gloves (EN ISO 374).

Recommended

Protective gloves made of butyl (EN ISO 374).

Minimum layer thickness in mm:

>= 0,50

Permeation time (penetration time) in minutes:

= 120

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

The recommended maximum wearing time is 50% of breakthrough time Protective hand cream recommended

Skin protection - Other: Solvent resistant protection clothing (EN 13034)

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

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

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

9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Liquid Colourless Characteristic

Melting point/freezing point:
Boiling point or initial boiling point and boiling range:

There is no information available on this parameter. Flammability: Flammable 1,8 Vol-% 11,5 Vol-% -4 °C Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: n.a.

Decomposition temperature: There is no information available on this parameter.

pH:
Kinematic viscosity:
Solubility:
Partition coefficient n-octanol/water (log value): Mixture is non-soluble (in water).
There is no information available on this parameter.
Insoluble

Does not apply to mixtures Vapour pressure: 101 mbar (20°C) Density and/or relative density: 0.84 g/cm3 (20°C)

There is no information available on this parameter. Does not apply to liquids. Relative vapour density: Particle characteristics:

9.2 Other information

Product is not explosive. When using: development of explosive vapour/air mixture possible. No

Oxidising liquids:

Bulk density: Solvents content: 100 % (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

See also section 7. Heating, open flame, ignition sources Electrostatic charge

10.5 Incompatible materials

Avoid contact with strong oxidizing agents. Avoid contact with strong alkalis.

10.6 Hazardous decomposition products

See also section 5.2
No decomposition when used as directed.

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 COSMO® CL-300.110

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral oute:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by nhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell nutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ oxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ oxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Butanone Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
Toxicity / effect	int	value	Unit	m	rest method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	5000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	34-34,5	mg/l/ 4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizisir g
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative



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COSMO® CL-300.110 (COSMOFEN 5)													unconso sness, drop in
Germ cell				Mouse	OECD 476 (In	Negative							blood
mutagenicity:				Wouse	Vitro Mammalian Cell Gene Mutation Test)	Negative							cornea opacity, coughing headach
Specific target organ oxicity - single exposure (STOT-SE):					resty	STOT SE 3, H336, May cause drowsiness or							gastroin tinal disturbar s, intoxicati
Reproductive toxicity (Developmental toxicity):	NOAE C	1002	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	dizziness. Negative							, drowsine , mucous membra irritation,
Symptoms:						respiratory distress, drowsiness , unconsciou							dizzines: salivation nausea and vomiting
						sness, drop in blood pressure, coughing, headaches, cramps, intoxication	Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	900	mg/k g bw/d	Rat	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY	fatigue
						drowsiness , mucous membrane irritation, dizziness, nausea and vomiting.,	Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE L	0,002	mg/k g	Rat	(RODENTS)) Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS))	
						mental confusion,	n-butyl acetate						
Specific target organ	NOAE	5041	ppm/	Rat	OECD 413	fatigue Vapours,	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
toxicity - repeated exposure (STOT-RE), inhalat.:	С		6h/d		(Subchronic Inhalation Toxicity - 90-Day Study)	Negative	Acute toxicity, by oral route:	LD50	10760	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Ethyl acetate Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	Acute toxicity, by dermal route:	LD50	>14112	mg/k g	Rabbit	OECD 402 (Acute Dermal	
Acute toxicity, by oral route:	int LD50	4934	mg/k g	m Rabbit	OECD 401 (Acute Oral Toxicity)		Acute toxicity, by inhalation:	LC50	21,1	mg/l/ 4h	Rat	Toxicity) OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by dermal route: Acute toxicity, by	LD50	>20000	mg/k g mg/l/	Rabbit		Vapours	Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Not irrita
inhalation: Skin corrosion/irritation:			4h	Rabbit		Not irritant, Repeated exposure	Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio n)	Not irrita
						may cause skin dryness or	Respiratory or skin sensitisation:				Guinea	OECD 406 (Skin Sensitisation)	No (skin contact)
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	cracking. Eye Irrit. 2	Germ cell mutagenicity:				pig Salmonel Ia typhimuri	OECD 471 (Bacterial Reverse	Negative
Respiratory or skin				Guinea	Irritation/Corrosio n) OECD 406 (Skin	No (skin	Reproductive toxicity:	NOAE C	9640	mg/m 3	úm	Mutation Test) OECD 416 (Two- generation	Negative
sensitisation: Germ cell mutagenicity:				pig Salmonel Ia	Sensitisation) OECD 471 (Bacterial	contact) Negative	Specific target organ					Reproduction Toxicity Study)	Vapours
Germ cell				typhimuri um Mammali an	Reverse Mutation Test) OECD 473 (In Vitro	Negative	toxicity - single exposure (STOT-SE):						may cau drowsine and dizzines
mutagenicity:					Mammalian Chromosome Aberration Test)		Specific target organ toxicity - repeated exposure (STOT-RE):						Negative
Germ cell mutagenicity:				Mammali an	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative	Symptoms:						drowsine , unconso sness, headach
Carcinogenicity: Reproductive toxicity:					,	Negative Negative							drowsin s, muco
Aspiration hazard:	1	<u> </u>	I			No							membra irritation, dizzines nausea and vomiting
							Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	500	ppm	Rat		vomining
							11.2. Information	on other	hazards				
						ļ	00000 02 0000						
							(COSMOFEN 5)	Endno	Value	Unit	Organie	Test method	Notes
								Endpo int	Value	Unit	Organis m	Test method	Notes Does not



											_			•	
Page 5 of 7 Safety data sheet a				1907/2006	6, Annex II			Other information:	BOD/CO D		>50	%			
Revision date / ver Replacing version	dated / versio			13				Ethyl acetate							
Valid from: 12.05.2 PDF print date: 16. COSMO® CL-300.	05.2022							Toxicity / effect Toxicity to	Endpoin t EC10	Tim e 18h	Valu e 290	Unit mg/l	Organism Pseudomon	Test method	Notes
(COSMOFEN 5)								bacteria: 12.1. Toxicity to	LC50	48h	0 333	mg/l	as putida Leuciscus		
							No other	fish:				_	idus		
Other information:							No other relevant	12.1. Toxicity to fish:	NOEC/N OEL	32d	>9,6 5	mg/l	Pimephales promelas		
							information available	12.1. Toxicity to fish:	LC50	96h	230	mg/l	Pimephales promelas		
							on adverse effects on	12.1. Toxicity to daphnia:	EC50	48h	610	mg/l	Daphnia magna	DIN 38412 T.11	
							health.	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	2,4	mg/l	Daphnia magna	OECD 211 (Daphnia	
n-butyl acetate Toxicity / effect	End	po V	alue	Unit	Organis m	Test method	Notes						 g	magna Reproductio n Test)	
Other information:							Repeated exposure	12.1. Toxicity to daphnia:	EC50	48h	165	mg/l			Daphnia cucullata
							may cause	12.1. Toxicity to	EC50	48h	560	mg/l	Desmodesm	DIN 38412 T.9	Cucunata
							skin dryness or	algae:	NOTON	0.01	0	4	us subspicatus		
							cracking.	12.1. Toxicity to algae:	NOEC/N OEL	96h	200 0	mg/l	Scenedesm us	OECD 201 (Alga,	
	SEC	TION	12: E	cologic	cal inforn	nation							subspicatus	Growth Inhibition	
								12.1. Toxicity to	EC50	96h	>20	mg/l	Pseudokirch	Test) OECD 201	
Possibly more info COSMO® CL-300.		vironmer	tal effects	s, see Sect	tion 2.1 (classif	ication).		algae:	2000	00	00	gr	neriella subcapitata	(Alga, Growth	
(COSMOFEN 5)													Subcapitata	Inhibition	
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	12.1. Toxicity to	NOEC/N	72h	>10	mg/l	Desmodesm	Test) OECD 201	
12.1. Toxicity to	t	е	е			method	n.d.a.	algae:	OEL		0		us subspicatus	(Alga, Growth	
fish: 12.1. Toxicity to							n.d.a.							Inhibition Test)	
daphnia: 12.1. Toxicity to							n.d.a.	12.1. Toxicity to algae:	EC50	48h	330 0	mg/l	Scenedesm us	,	
algae: 12.2.							n.d.a.	12.2.		20d	79	%	subspicatus	OECD 301	Readily
Persistence and degradability:							11.0.0.	Persistence and		200	19	70		D (Ready	biodegrada
12.3.							n.d.a.	degradability:						Biodegradab ility - Closed	ble
Bioaccumulative potential:								12.3.	BCF	72h	30			Bottle Test)	(Fish)
12.4. Mobility in soil:							n.d.a.	Bioaccumulative potential:							
12.5. Results of PBT and vPvB							n.d.a.	12.3. Bioaccumulative	Log Kow		0,68			OECD 107 (Partition	Bioaccumi ation is
assessment 12.6. Endocrine							Does not	potential:						Coefficient (n-	unlikely (LogPow <
disrupting properties:							apply to mixtures.							octanol/wate	1).25 °C
12.7. Other adverse effects:							No							r) - Shake Flask	
adverse effects.							information available	12.4. Mobility in	Н		0,00	atm*		Method)	
							on other adverse	soil:	(Henry)		012	m3/m ol			
							effects on the	12.4. Mobility in soil:	Koc		3				
							environmen t.	12.5. Results of PBT and vPvB							No PBT substance
Butanone	•	•		'	'	•		assessment							No vPvB substance
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test method	Notes	Toxicity to	EC10	16h	290	mg/l	Escherichia		Substance
12.5. Results of			-			metriou	No vPvB	Toxicity to	EC50	15m	587	mg/l	Photobacteri		
PBT and vPvB assessment							substance, No PBT	bacteria:		in	0		um phosphoreu		
12.1. Toxicity to	LC50	96h	169	mg/l	Lepomis		substance						m		
fish: 12.1. Toxicity to	LC50	96h	299	mg/l	macrochiru Pimephales			n-butyl acetate Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
fish:			3		promelas	(Fish, Acute Toxicity		12.7. Other	t	е	е		_	method	Product
12.1. Toxicity to	EC50	48h	308	mg/l	Daphnia	Test) OECD 202		adverse effects:							floats on the water
daphnia:					magna	(Daphnia sp. Acute		12.1. Toxicity to	LC50	96h	18	mg/l	Pimephales	OECD 203	surface.
						Immobilisati on Test)		fish:	2000	3011	10	mg/I	promelas	(Fish, Acute	
12.1. Toxicity to	EC50	72h	197 2	mg/l	Pseudokirc	h OECD 201								Test) OECD 202	
algae:			2		neriella subcapitata			12.1. Toxicity to daphnia:	EC50	48h	44	mg/l	Daphnia magna	(Daphnia	
						Inhibition Test)								sp. Acute Immobilisati	
12.1. Toxicity to algae:	EC50	96h	202 9	mg/l	Pseudokirc neriella	(Alga,		12.1. Toxicity to	NOEC/N	21d	23	mg/l	Daphnia	on Test) OECD 211	
					subcapitata	Growth Inhibition		daphnia:	OEL				magna	(Daphnia magna	
12.2.		28d	98	%		Test) OECD 301	Readily							Reproductio n Test)	
Persistence and degradability:		200		"		D (Ready Biodegradab	biodegrada ble	12.1. Toxicity to	EC50	72h	397	mg/l	Scenedesm	OECD 201	
degradability.						ility - Closed	Die	algae:					us subspicatus	(Alga, Growth	
12.3.	Log Pow		0,29			Bottle Test) OECD 117	Bioaccumul							Inhibition Test)	
Bioaccumulative potential:			-0,3			(Partition Coefficient	ation is unlikely	12.1. Toxicity to algae:	NOEC/N OEL	72h	200	mg/l	Desmodesm us		
						(n- octanol/wate	(LogPow < 1).	12.2.		28d	98	%	subspicatus	OECD 301	Readily
						r) - HPLC method)		Persistence and degradability:						D (Ready Biodegradab	biodegrada ble
12.4. Mobility in soil:	H (Henry)		0,00 002				25°C	g.aaaaanty.						ility - Closed Bottle Test)	
12.4. Mobility in	Log Koc		44 3,8					12.3. Bioaccumulative	Log Pow		1,78			Dottie (est)	Low
soil: Toxicity to	EC0	16h	115	mg/l	Pseudomor	n DIN 38412		potential:	DOE.		-2,3				
bacteria:		1011	0		as putida	T.8		12.3. Bioaccumulative	BCF		15,3				
Other information:	DOC		>70	%				potential:			<u> </u>				



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Revision date / version: 1.2.0.2022 / 0014 Replacing version dated / version: 01.11.2021 / 0013 Valid from: 12.05.2022 PDF print date: 16.05.2022 COSMO® CL-300.110

(COSMOFEN 5)

	12.5. Results of					No PBT
	PBT and vPvB					substance,
	assessment					No vPvB
	ı					substance
	Toxicity to	EC10	959	mg/l	Pseudomon	
- 1	hacteria:			_	as putida	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.

Ec disposal code no.:

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

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 01 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures Recommendation:

Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. suitable incineration plant.

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. Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion. 15 01 01 paper and cardboard packaging

15 01 04 metallic packaging

SECTION 14: Transport information

General statements

14.1. UN number or ID number

1993

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE,ETHYL ACETATE) (SPECIAL

PROVISION 640D)

14.3. Transport hazard class(es): 3 14.4. Packing group: Classification code: LQ: 14.5. Environmental hazards: Not applicable D/E

Transport by sea (IMDG-code)

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE,ETHYL ACETATE)

14.3. Transport hazard class(es): 14.4. Packing group: FmS: F-E. S-E Marine Pollutant Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:
Flammable liquid, n.o.s. (METHYL ETHYL KETONE,ETHYL ACETATE) 14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account.

Danger code and packing code on request. Comply with special provisions.

SECTION 15: Regulatory information

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

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

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

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others

may also need to be considered according to storage, handling etc.):

	Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity	
ı			(tonnes) of dangerous	(tonnes) of dangerous	
ı			substances as referred	substances as referred	
ı			to in Article 3(10) for	to in Article 3(10) for	
ı			the application of -	the application of -	
ı			Lower-tier requirements	Upper-tier requirements	
ı	P5c		5000	50000	

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6,

must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): Directive 2010/75/EU (VOC):

REGULATION (EC) No 648/2004

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materia

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
Flam. Liq. 2, H225	Classification based on test data.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H336	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). H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H319 Causes serious eve irritation. H336 May cause drowsiness or dizziness

EUH066 Repeated exposure may cause skin dryness or cracking.

Flam. Liq. — Flammable liquid Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - narcotic effects

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 (ECHA).

Safety data sheets for the constituent substances ECHA Homepage - Information about chemicals.

ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (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 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 Internati ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and rmany)
Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

Testing, Germany)
BAuA Bundesan
and Safety, Germany)

Bioconcentration factor BCF

BSFF The International Bromine Council

bw CAS

The international Brothine Council body weight Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging
labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive to

a packaging of substances and mixtures) carcinogenic, mutagenic, reproductive toxic Derived Minimum Effect Level Derived No Effect Level Dissolved organic carbon dry weight DMFI

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)

ECHA European Community
ECK, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)
Effect Concentration/Level for x % effect
EEC European Economic Community EINECS

ELINCS EN EPA

European Lorinomo Common Commo ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate

(algae, plants) etc. et cetera

FU

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

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

GHS Globally Harmonized System of Classification and I
GWP Global warming potential
Koc Adsorption coefficient of organic carbon in the soil
octanol-water partition coefficient
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. inc

incl. IUCLID

including, inclusive
International Uniform Chemical Information Database
International Unior for Pure Applied Chemistry
Lethal Concentration to 50 % of a test population IUPAC LC50

LOSO Lethal Concentration 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

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable

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



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COSMO® CL-300.110

(COSMOFEN 5)

National Institute for Occupational Safety and Health (USA) No-longer-Polymer EL No Observed Effect Concentration/Level NIOSH

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

PE PNEC

PNEC Predicted No Effect Concentration parts per million PVC Polyvinylchloride REACH 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 Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

Tel. Telephone
TOC Total organic carbon
UN RTDG
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt weight

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