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Page 1 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

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

Alcohol (Alkohol)

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

Solvent Thinners

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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KREIDEZEIT Naturfarben GmbH

Kassemühle 3 31195 Lamspringe

Tel.: +49 (0) 506 0 608 06 50 Fax: +49 (0) 506 0 608 06 80 E-Mail: info@kreidezeit.de Homepage: www.kreidezeit.de

Distributor:

Mike Wye & Associates Ltd Buckland Filleigh Sawmills Shebbear

Beaworthy EX21 5RN

Tel: +44 1409 281644 Email: sales@mikewye.co.uk

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

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+49 551 19240 (D-37075 Göttingen, 24 hour)

Telephone number of the company in case of emergencies:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)



(GB)

Page 2 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023 Alcohol (Alkohol)

Hazard class Hazard category Hazard statement

Flam. Liq. 2 H225-Highly flammable liquid and vapour. Eye Irrit. 2 H319-Causes serious eye irritation.

2.2 Label elements

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



Danger

H225-Highly flammable liquid and vapour. H319-Causes serious eye irritation.

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

P280-Wear eye protection / face protection.

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

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

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 %).

Dangerous vapours heavier than air.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

OIZ MIXEGIOO	
Ethanol	
Registration number (REACH)	01-2119457610-43-XXXX
Index	603-002-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	200-578-6
CAS	64-17-5
content %	75-<100
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 2, H225
factors	Eye Irrit. 2, H319
Specific Concentration Limits and ATE	Eye Irrit. 2, H319: >=50 %
factors	,



(GB)

Page 3 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023 Alcohol (Alkohol)

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 %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH066
factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319

Propan-2-ol	
Registration number (REACH)	01-2119457558-25-XXXX
Index	603-117-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	200-661-7
CAS	67-63-0
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 2, H225
factors	Eye Irrit. 2, H319
	STOT SE 3, H336

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.

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.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media



(GB)

Page 4 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

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.

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 unprotected persons away.

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

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

Fill the absorbed material into lockable containers.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Avoid contact with eyes or skin.

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

Observe directions on label and instructions for use.



(GB)

Page 5 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Ethanol		
WEL-TWA: 1000 ppm (1920 mg	g/m3)	WEL-STEL:	
Monitoring procedures:	-	Draeger - Alcohol 25/a Ethanol (81 01 631)	
	-	Compur - KITA-104 SA (549 210)	
		DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DF	
	-	2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 c	
		DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013	- EU project
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004)	
		DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013	- EU project
	-	BC/CEN/ENTR/000/2002-16 card 63-2 (2004)	
BMGV:		Other information: -	

DIVIGV		Other information.	
Chemical Name But	tanone		
WEL-TWA: 200 ppm (600 mg/m3) (V		.: 300 ppm (899 mg/m3) (WEL), 300 mg/m3) (EU)	
Monitoring procedures:	- Compur - KIT/ - Compur - KIT/ - Compur - KIT/ DFG MethNr - 2015, 2002 INSHT MTA/N ketone, methy chromatograp - (2004) MDHS 72 (Vo - solid sorbent t - NIOSH 2500 (A-122 SA(C) (549 277) A-139 SB (549 731) A-139 U (549 749) - 4 (D) (Loesungsmittelgemische 4), DFC MA-031/A96 (Determination of ketones (and isobutyl ketone) in air - Charcoal tube minhy) - 1996 - EU project BC/CEN/ENTR/OF Clatile organic compounds in air - Laborate tubes, thermal desorption and gas chromate (METHYL ETHYL KETONE) - 1996 CVOLATILE ORGANIC COMPOUNDS (SECTONES I) - 2003	cetone, methyl ethyl nethod / Gas 00/2002-16 card 105-1 ory method using pumped atography) - 1993



(B)⋅

Page 6 of 21
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 22.02.2023 / 0001
Replacing version dated / version: 22.02.2023 / 0001
Valid from: 22.02.2023

PDF print date: 22.02.2023 Alcohol (Alkohol)

		NIOSH 3800 (ORGANIC AND IN	IORGANIC GASES BY EXTRACTIVE FTIR
	-	SPECTROMETRY) - 2016	
	-	OSHA 1004 (2-Butanone (MEK)	Hexone (MIBK)) - 2000
BMGV:	70 µmol butan-2-one/l in urine, post shift	(BMGV)	Other information: Sk

DIVIGV. 10 pinor batan 2 onomin t	aririo, poot orint (Biviov)	Other Informe	ation. Ok
© Chemical Name	Propan-2-ol		
WEL-TWA: 400 ppm (999 mg/m3) WEL-STEL:	500 ppm (1250 mg/m3)	
Monitoring procedures:	- Draeger - Alcoho	ol 25/a i-Propanol (81 01 631)	
	- Compur - KITA-	122 SA(C) (549 277)	
	- Compur - KITA-	150 U (550 382)	
	DFG (D) (Loesu	ngsmittelgemische), DFG (E) (\$	Solvent mixtures 6) - 2013, 2002 -
	 EU project BC/C 	EN/ENTR/000/2002-16 card 66	6-3 (2004)
	- NIOSH 1400 (AI	LCOHOLS I) - 1994	, ,
	- NIOSH 2549 (V	CLATILE ORGANIC COMPOU	NDS (SCREENING)) - 1996
	- Draeger - Alcoho	ol 100/a (CH 29 701)	. ,,
BMGV:		Other informa	ation:

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,96	mg/l	
	Environment - marine		PNEC	0,79	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2,75	mg/l	
	Environment - sewage treatment plant		PNEC	580	mg/l	
	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight	
	Environment - soil		PNEC	0,63	mg/kg dry weight	
	Environment - oral (animal feed)		PNEC	0,38	g/kg feed	
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight	
Consumer	Human - dermal	Short term, local effects	DNEL	950	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	950	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3	

Butanone



(B)⋅

Page 7 of 21
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 22.02.2023 / 0001
Replacing version dated / version: 22.02.2023 / 0001
Valid from: 22.02.2023

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	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	1000	mg/kg	
Consumer	Human - dermal	Long term	DNEL	412	mg/kg bw/day	Overall assesment factor 2
Consumer	Human - inhalation	Long term	DNEL	106	mg/m3	Overall assesment factor 2
Consumer	Human - oral	Long term	DNEL	31	mg/kg bw/day	Overall assesment factor 2
Workers / employees	Human - dermal	Long term	DNEL	1161	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term	DNEL	600	mg/m3	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg dw	
	Environment - sediment, marine		PNEC	552	mg/kg dw	
	Environment - soil		PNEC	28	mg/kg dw	
	Environment - sewage treatment plant		PNEC	2251	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	140,9	mg/l	
	Environment - oral (animal feed)		PNEC	160	mg/kg feed	
Consumer	Human - dermal	Long term, systemic effects	DNEL	319	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	89	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	888	mg/kg bw/day	



(GB)

Page 8 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

Wor	kers / employees	Human - inhalation	Long term, systemic	DNEL	500	ma/m3	
110.	nord / dinployeds	Trainan iiiiaaaa	Long tom, cyclonic		000	,g,o	
			effects				
			CHECIS				

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

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

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

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

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

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:



(B)

Page 9 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

If OES or MEL is exceeded.

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 before use.

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

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Characteristic

Melting point/freezing point:

There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: 78-81 °C

Flammability: Flammable
Lower explosion limit: 3,5 Vol-% (Ethanol)
Upper explosion limit: 15 Vol-% (Ethanol)
Flash point: 12-21 °C

Flash point: 12-21 ° Auto-ignition temperature: 400 °C

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

pH: ~7 (10 %)

Kinematic viscosity: 1,19 mPas (Dynamic viscosity)

Solubility: Soluble

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

Vapour pressure:

Vapour pressure:

Does not apply to mixtures.

~58 hPa (20°C, Ethanol)

~293 hPa (50°C, Ethanol)

Density and/or relative density: 0,79-0,81 g/cm3

Relative vapour density: There is no information available on this parameter.

Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive. When using: development of explosive

vapour/air mixture possible.

Oxidising liquids:

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

No dangerous reactions are known.



(GB)

Page 10 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023 Alcohol (Alkohol)

10.4 Conditions to avoid

Heating, open flame, ignition sources

Electrostatic charge

10.5 Incompatible materials

Alkali metals
Alkaline-earth metals
Oxidizing agents
Acids

10.6 Hazardous decomposition products

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).

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	•					n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Ethanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10470	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	51-124,7	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
-					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	,



(B)⋅

Page 11 of 21
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 22.02.2023 / 0001
Replacing version dated / version: 22.02.2023 / 0001
Valid from: 22.02.2023

Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
Ç ,				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451 (Carcinogenicity Studies)	24 mon
Reproductive toxicity:	NOAEL	5200	mg/kg bw/d	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAL	>20	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	Male
Specific target organ toxicity - repeated exposure (STOT- RE):	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Female
Symptoms:						respiratory distress, drowsiness, unconsciousnes s, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea

Butanone												
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes						
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute							
					Oral Toxicity - Acute							
					Toxic Class Method)							
Acute toxicity, by dermal	LD50	5000	mg/kg	Rabbit	OECD 402 (Acute							
route:					Dermal Toxicity)							
Acute toxicity, by inhalation:	LC50	34-34,5	mg/l/4h	Rat								



(B)⋅

Page 12 of 21
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 22.02.2023 / 0001
Replacing version dated / version: 22.02.2023 / 0001
Valid from: 22.02.2023

	I				0500 404 /4	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OEĆD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Reproductive toxicity (Developmental toxicity):	NOAEC	1002	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						respiratory distress, drowsiness, unconsciousnes s, drop in blood pressure, coughing, headaches, cramps, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting., mental confusion, fatigue
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	5041	ppm/6h/d	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Vapours, Negative

Propan-2-ol									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute				
					Oral Toxicity)				



(B)⋅

Page 13 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001 Valid from: 22.02.2023

PDF print date: 22.02.2023 Alcohol (Alkohol)

Acute toxicity, by dermal route:	LD50	12800-13900	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat	· · · · · · · · · · · · · · · · · · ·	Aerosol
Skin corrosion/irritation:			J	Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OEĆD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT- RE):						Target organ(s): liver
Aspiration hazard:						No
Symptoms:						breathing difficulties, unconsciousnes s, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes
Specific target organ toxicity - repeated exposure (STOT- RE), oral:	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	5000	ppm	Rat	,	Vapours (OECD 451)

11.2. Information on other hazards

Alkohol									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Endocrine disrupting						Does not apply			
properties:						to mixtures.			



(B)

Page 14 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001 Valid from: 22.02.2023

PDF print date: 22.02.2023 Alcohol (Alkohol)

Other information:				No other
				relevant
				information
				available on
				adverse effects
				on health.
	•			

Ethanol										
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes				
Other information:						Excessive				
						alcohol				
						consumption				
						during				
						pregnancy				
						induces the				
						foetus alcohol				
						syndrome				
						(reduced				
						weight at birth,				
						physical and				
						mental				
						disorders).,				
						There is no				
						sign that this				
						syndrome is				
						also caused by				
						dermal or				
						inhalative				
						absorption.,				
						Experiences on				
						persons.				

SECTION 12: Ecological information

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

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse
							effects on the environment.



(B)⋅

Page 15 of 21
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001 Valid from: 22.02.2023

Ethanol							N 1 4
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus	OECD 203	
					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	120h	250	mg/l	Brachydanio rerio	OECD 212	
						(Fish, Short-	
						term Toxicity	
						Test on Embryo	
						and Sac-fry	
						Stages)	
12.1. Toxicity to	EC50	48h	5414	mg/l	Daphnia magna	OECD 202	
daphnia:				J	'	(Daphnia sp.	
-						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia	. 201)	References
daphnia:			5,5	····æ/·	spec.		
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201	
rexuenty to angular					omerena rangame	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	97	%	activated sludge	OECD 301 B	Readily
degradability:		200	0.	, 0	activated clauge	(Ready	biodegradable
aogradasiity.						Biodegradability -	biodogradabio
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		(-0,35) -			1001/	Bioaccumulati
potential:			(-0,32)				n is unlikely
potornian			(0,02)				(LogPow < 1).
12.3. Bioaccumulative	BCF		0,66 -				(Logi ow 17).
potential:	501		3,2				
12.4. Mobility in soil:	H (Henry)		0,00013				
12. II Mobility III coll.	' ' (' ' ' ' ' ' ' ' ' ' ' ' ' ' '		8				
12.4. Mobility in soil:	Koc		1,0				Highestimated
12.5. Results of PBT			,				No PBT
and vPvB assessment							substance, No
							vPvB
							substance
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209	Analogous
,				J.		(Activated	conclusion
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
Other organisms:	NOEC/NOEL		280	mg/l	Lemna gibba	OECD 201	
Outer organisms.	INOEC/INOEL		200	mg/I	Lemna gibba	(Alga, Growth	
			1,9	g/g		Inhibition Test)	
Other information:	COD		1 1 9	ו מומ			

Butanone											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.5. Results of PBT							No vPvB				
and vPvB assessment							substance, No				
							PBT substance				



(B)⋅

Page 16 of 21
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 22.02.2023 / 0001
Replacing version dated / version: 22.02.2023 / 0001
Valid from: 22.02.2023

12.1. Toxicity to fish:	LC50	96h	1690	mg/l	Lepomis		
12.1. Toxicity to fish:	LC50	96h	2993	mg/l	macrochirus Pimephales promelas	OECD 203 (Fish, Acute	
					promoido	Toxicity Test)	
12.1. Toxicity to	EC50	48h	308	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	1972	mg/l	Pseudokirchnerie	OECD 201	
, 3				3	lla subcapitata	(Alga, Growth	
					·	Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	2029	mg/l	Pseudokirchnerie	OECD 201	
					lla subcapitata	(Alga, Growth Inhibition Test)	
12.2. Persistence and		28d	98	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
12.3. Bioaccumulative	Log Dow		0,29-0,3			Test) OECD 117	Bioaccumulatio
potential:	Log Pow		0,29-0,3			(Partition	n is unlikely
poteritiai.						Coefficient (n-	(LogPow < 1).
						octanol/water) - HPLC method)	(2091 011 1).
12.4. Mobility in soil:	H (Henry)		0,00002			TH LO HIGHIOU)	25°C
	(,)		44				
12.4. Mobility in soil:	Log Koc		3,8				
Toxicity to bacteria:	EC0	16h	1150	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	DOC		>70	%			
Other information:	BOD/COD		>50	%			

Propan-2-ol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	BCF		3,2				Low
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Leuciscus idus		
12.1. Toxicity to fish:	LC50	96h	1400	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	2285	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	16d	141	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus		
12.2. Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.2. Persistence and degradability:			99,9	%		OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)	Readily biodegradable



(GB)

Page 17 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

12.3. Bioaccumulative	Log Pow		0,05			OECD 107	Slight
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
						Shake Flask	
						Method)	
12.4. Mobility in soil:	Koc		1,1			,	Expert
_							judgement
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	EC10	16h	1050	mg/l	Pseudomonas		
					putida		
Other organisms:	IC50	3d	2104	mg/l	Lactuca sativa		
Other information:	ThOD		2,4	g/g			
Other information:	BOD5		53	%			
Other information:	COD		96	%			References
Other information:	COD		2,4	g/g			
Other information:	BOD		1171	mg/g			

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

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

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

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

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.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

SECTION 14: Transport information

3

Ш

General statements

Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: 1170

14.2. UN proper shipping name: UN 1170 ETHANOL SOLUTION

14.3. Transport hazard class(es): 14.4. Packing group:

14.5. Environmental hazards: Not applicable

Tunnel restriction code:





(GB)

Page 18 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

Classification code: F1 1 L LQ: Transport category:

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

Observe restrictions:

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 92/85/EEC)! 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 (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for	referred to in Article 3(10) for
		the application of - Lower-tier	the application of - Upper-tier
		requirements	requirements
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):

100 %

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

n.a.

Employee training in handling dangerous goods is required.

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):



(GB)

Page 19 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023 Alcohol (Alkohol)

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.

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.

H319 Causes serious eye 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 for data:

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.

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 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

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

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

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

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)



(B)

Page 20 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

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 European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

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

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

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow 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. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

IUPAC International Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

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

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 available n.c. not checked

n.d.a. no data available

NIOSHNational 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. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

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

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds



(GB)

Page 21 of 21

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

Revision date / version: 22.02.2023 / 0001

Replacing version dated / version: 22.02.2023 / 0001

Valid from: 22.02.2023 PDF print date: 22.02.2023

Alcohol (Alkohol)

vPvB very persistent and very bioaccumulative

wwt wet weight

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

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

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