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

Revision date / version: 01.11.2021 / 0018

Replacing version dated / version: 29.04.2021 / 0017

Valid from: 01.11.2021 PDF print date: 01.11.2021

Marking Spray plus Yellow 500 ml

Art.: 9094958

## 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

Marking Spray plus Yellow 500 ml

Art.: 9094958

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

Paint and marking spray

Uses advised against:

No information available at present.

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

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141

Email: info@bti.de Homepage: www.bti.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 (BRC)

+1 872 5888271 (BRC)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Eye Irrit.	2	H319-Causes serious eye irritation.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.





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#### 2.2 Label elements

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



Danger

H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness. H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing spray. P271-Use only outdoors or in a well-ventilated area. P273-Avoid release to the environment. 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. P312-Call a POISON CENTRE / doctor if you feel unwell. P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50  $^{\circ}$ C. P501-Dispose of contents / container to an approved waste disposal facility.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Without adequate ventilation, formation of explosive mixtures may be possible.

Ethyl acetate

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

#### 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**

Aerosol

3.1 Substances

n.a.

3.2 Mixtures

Ethyl acetate	Substance for which an EU exposure limit			
	value applies.			
Registration number (REACH)	01-2119475103-46-XXXX			
Index	607-022-00-5			





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EINECS, ELINCS, NLP, REACH-IT List-No.	205-500-4
CAS	141-78-6
content %	10-<20
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

Titanium dioxide (in powder form containing 1 % or	
more of particles with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	<10
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	920-750-0
CAS	
content %	2,5-<5
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Flam. Liq. 2, H225
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

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	Flam. Liq. 2, H225
(CLP), M-factors	Eye Irrit. 2, H319
	STOT SE 3, H336

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

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

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

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

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures





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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.

#### Eye contact

Remove contact lenses.

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

#### **Ingestion**

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - 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.

The following may occur:

eyes, reddened

Watering eyes

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

With long-term contact:

drying of the skin.

Dermatitis (skin inflammation)

# 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

Water jet spray / alcohol resistant 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

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

#### 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.





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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.

Remove possible causes of ignition - do not smoke.

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

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

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

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

#### 6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Without adequate ventilation, formation of explosive mixtures may be possible.

Active substance:

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

#### 6.4 Reference to other sections

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

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

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

#### 7.1 Precautions for safe handling

# 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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.





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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 regulations for aerosols!

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well-ventilated place.

Store cool.

# 7.3 Specific end use(s)

No information available at present.

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

# 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

1200 mg/m3

Chemical Name	Ethyl acetate	Content %:10-<20				
WEL-TWA: 200 ppm (734						
(WEL, EU)	(WEL, EU)					
Monitoring procedures:	- Draeger - Ethyl Acetate 200/a (CH 20 201)					
	- Compur - KITA-111 SA (549 160)					
	- Compur - KITA-111 U(C) (549 178)					
DFG Meth. Nr. 1 (D) (Loesungsmittelgemische 2), DFG (E)						
	- (Solvent mixtures 2) - 1993, 2002					
	DFG Meth. Nr. 2 (D) (Loesungsmittelgemische 3)	DFG Meth. Nr. 2 (D) (Loesungsmittelgemische 3), DFG (E)				
	- (Solvent mixtures 3) - 2014, 2002	(Solvent mixtures 3) - 2014, 2002				
	DFG Meth. Nr. 6 (D) (Loesungsmittelgemische 4)	, DFG (E)				
	- (Solvent mixtures 4) - 2014, 2002					
	- NIOSH 1457 (ETHYL ACETATE) - 1994	NIOSH 1457 (ETHYL ACETATE) - 1994				
NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS						
	- (SCREENING)) - 1996					
BMGV:	Other information:					

Chemical Name	Titanium dioxide (in powder form containing 1 % or more of			Content		
Chemical Name	aerodynamic diameter <= 10 µm)				%:<10	
WEL-TWA: 10 mg/m3 (total inhalable WEL-STEL:						
dust), 4 mg/m3 (respirable d						
Monitoring procedures:						
BMGV:				Other information	:	

Chemical Name Hydrocarbon		Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Content %:2,5-<5
W	VEL-TWA: 1200 mg/m3	WEL-STEL:	



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Monitoring procedures:						
wiomioning procedures.	-	Draeger - Hydrocarbons 0,1%/c (81 03 571)				
	-	Draeger - Hydrocarbons 2/a (81 03 581)				
		Compur - KITA-187 S (551 174)				
BMGV:		Other information	,			
		RCP-method, para	agraphs	84-87, EH40)		
(B)				Content %:1-		
Chemical Name	Propan-2-ol			<2,5		
WEL-TWA: 400 ppm (999	) mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)		\2,3		
Monitoring procedures:		Draeger - Alcohol 25/a i-Propanol (81 01 631)				
manusing procedures.	_	Compur - KITA-122 SA(C) (549 277)				
	_	1				
		DFG (D) (Loesungsmittelgemische), DFG (E)	(Solver	t mixtures 6) -		
		2013, 2002 - EU project BC/CEN/ENTR/000/2				
	_	(2004)				
	_	NIOSH 1400 (ALCOHOLS I) - 1994				
		NIOSH 2549 (VOLATILE ORGANIC COMP	OUND	S		
	_	(SCREENING)) - 1996	OCIAD	S		
	_	Draeger - Alcohol 100/a (CH 29 701)				
BMGV:		Other information	:			
© Chemical Name	Propane	,		Content %:		
WEL-TWA: 1000 ppm (A		WEL-STEL:		Content %.		
Monitoring procedures:	-					
Womtoring procedures.	_	OSHA PV2077 (Propane) - 1990				
BMGV:		Other information				
DITIO 11.			•			
	D : 1.1		:	G + +0/		
© Chemical Name	Barium sulph	hate		Content %:		
WEL-TWA: 4 mg/m3 (resp	pirable dust),			Content %:		
WEL-TWA: 4 mg/m3 (resp 10 mg/m3 (total inhalable du	pirable dust),	hate WEL-STEL:		Content %:		
WEL-TWA: 4 mg/m3 (responses) 10 mg/m3 (total inhalable du Monitoring procedures:	pirable dust),	hate WEL-STEL:		Content %:		
WEL-TWA: 4 mg/m3 (resp 10 mg/m3 (total inhalable du	pirable dust),	hate WEL-STEL:		Content %:		
WEL-TWA: 4 mg/m3 (responses) 10 mg/m3 (total inhalable du Monitoring procedures:	pirable dust),	hate WEL-STEL:		Content %:		
WEL-TWA: 4 mg/m3 (responses) 10 mg/m3 (total inhalable du Monitoring procedures:  BMGV:	pirable dust), ast) Talc	hate WEL-STEL:				
WEL-TWA: 4 mg/m3 (respondent of the second o	pirable dust), ast) Talc	wel-stel: Other information	:			
WEL-TWA: 4 mg/m3 (responded from the first state of	pirable dust), ast) Talc	WEL-STEL:  Other information  WEL-STEL:	:			
WEL-TWA: 4 mg/m3 (res 10 mg/m3 (total inhalable du Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 1 mg/m3 (res. Monitoring procedures: BMGV:	pirable dust), ist)  Talc . dust)	WEL-STEL: Other information WEL-STEL:	:	Content %:		
WEL-TWA: 4 mg/m3 (respondent of the second o	rist)  Talc . dust)  Isobutane	WEL-STEL:  Other information  WEL-STEL:  Other information	:			
WEL-TWA: 4 mg/m3 (respondent of the second o	rist)  Talc . dust)  Isobutane	WEL-STEL:  Other information  WEL-STEL:  Other information  WEL-STEL:	:	Content %:		
WEL-TWA: 4 mg/m3 (respondent of the second o	rist)  Talc . dust)  Isobutane	WEL-STEL:  Other information  WEL-STEL:  Other information	:	Content %:		

Ethyl acetate						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,24	mg/l	
	freshwater					
	Environment - marine		PNEC	0,024	mg/l	
	Environment - water,		PNEC	1,65	mg/l	
	sporadic					
l	(intermittent) release					





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	Environment - sediment, freshwater		PNEC	1,15	mg/kg
	Environment - sediment, marine		PNEC	0,115	mg/kg
	Environment - soil		PNEC	0,148	mg/kg
	Environment -		PNEC	650	mg/l
	sewage treatment plant				
	Environment - oral (animal feed)		PNEC	200	mg/kg
Consumer	Human - oral	Long term, systemic effects	DNEL	4,5	mg/kg
Consumer	Human - dermal	Long term, systemic effects	DNEL	37	mg/kg
Consumer	Human - inhalation	Long term, systemic effects	DNEL	367	mg/m3
Consumer	Human - inhalation	Long term, local effects	DNEL	367	mg/m3
Consumer	Human - inhalation	Short term, systemic effects	DNEL	734	mg/m3
Consumer	Human - inhalation	Short term, local effects	DNEL	734	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	63	mg/kg
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	734	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	734	mg/m3
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	1468	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1468	mg/m3

Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,184	mg/l	
	freshwater					
	Environment - marine		PNEC	0,018	mg/l	
				4	_	
	Environment - water,		PNEC	0,193	mg/l	
	sporadic				_	
	(intermittent) release					
	Environment -		PNEC	100	mg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	1000	mg/kg	
	sediment, freshwater				dw	





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	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	1667	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics										
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Human - oral	Long term,	DNEL	699	mg/kg					
		systemic effects			bw/d					
Consumer	Human - dermal	Long term,	DNEL	699	mg/kg					
		systemic effects			bw/d					
Consumer	Human - inhalation	Long term,	DNEL	608	mg/m3					
		systemic effects								
Workers / employees	Human - dermal	Long term,	DNEL	773	mg/kg					
		systemic effects			bw/d					
Workers / employees	Human - inhalation	Long term,	DNEL	2035	mg/m3					
 I		systemic effects								

Propan-2-ol										
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Environment -		PNEC	140,9	mg/l					
	freshwater									
	Environment - marine		PNEC	140,9	mg/l					
	Environment -		PNEC	552	mg/kg					
	sediment, freshwater				dw					
	Environment -		PNEC	552	mg/kg					
	sediment, marine				dw					
	Environment - soil		PNEC	28	mg/kg					
					dw					
	Environment -		PNEC	2251	mg/l					
	sewage treatment									
	plant									
	Environment - water,		PNEC	140,9	mg/l					
	sporadic									
	(intermittent) release									
	Environment - oral		PNEC	160	mg/kg					
	(animal feed)				feed					
Consumer	Human - dermal	Long term,	DNEL	319	mg/kg					
		systemic effects			bw/day					





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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
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	500	mg/m3

Barium sulphate						
Area of application	Exposure route /	Exposure route / Effect on health Descript				Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,115	mg/l	
	freshwater					
	Environment -		PNEC	600,4	mg/kg	
	sediment, freshwater				dw	
	Environment -		PNEC	62,2	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	207,7	mg/kg	
					dw	
Consumer	Human - oral	Long term,	DNEL	13000	mg/kg	
		systemic effects			body	
					weight/d	
					ay	
Consumer	Human - inhalation	Long term,	DNEL	10	mg/m3	
		systemic effects				
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
Workers / employees	Human - inhalation	Long term, local	DNEL	10	mg/m3	
		effects	21,22			

- 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).
- $(8) = Inhalable\ fraction\ (2017/164/EU,\ 2017/2398/EU).\ (9) = Respirable\ fraction\ (2017/164/EU,\ 2017/2398/EU).$   $(10) = Short\text{-term}\ exposure\ limit\ value\ in\ relation\ to\ a\ reference\ period\ of\ 1\ minute\ (2017/164/EU).\ |\ BMGV=Biological\ monitoring\ guidance\ value\ EH40.\ BGW="Biologischer\ Grenzwert"\ (biological\ limit\ value,\ Germany)\ |\ Other\ information:\ Sen=Capable\ of\ causing\ occupational\ asthma.\ Sk=Can\ be\ absorbed\ through\ skin.\ Carc=Capable\ of\ causing\ cancer\ and/or\ heritable\ genetic\ damage.$
- \*\* = 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).





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#### 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).

Recommended

Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm:

0,7

Permeation time (penetration time) in minutes:

>=60

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:

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

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.





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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: Aerosol. Active substance: liquid. Colour: According to specification

Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: <0 °C

Flammability: Does not apply to aerosols.

Lower explosion limit: 1,7 Vol-%
Upper explosion limit: 11,5 Vol-%
Flash point: -97 °C
Auto-ignition temperature: 460 °C

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

pH: Mixture is non-soluble (in water).

Kinematic viscosity: <=20,5 mm2/s (40°C, Active substance)

Solubility: Insoluble

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: 8300 hPa (20°C)

Density and/or relative density: 0,93 g/ml (Active substance)

Density and/or relative density: 0,67 g/cm3 (20°C)

Relative vapour density:

Particle characteristics:

Does not apply to aerosols.

Does not apply to aerosols.

9.2 Other information

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

explosive vapour/air mixture possible.

Oxidising liquids: No

Solvents content: 57,3 % (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

No dangerous reactions are known.





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#### 10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

#### 10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong 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).

Marking Spray plus Yel	low 500 ml					
Art.: 9094958						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
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						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Ethyl acetate							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	4934	mg/kg	Rabbit	OECD 401 (Acute		
route:					Oral Toxicity)		
Acute toxicity, by	LD50	>20000	mg/kg	Rabbit			
dermal route:							
Acute toxicity, by	LC0	29,3	mg/l/4h	Rat		Vapours	
inhalation:							





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Skin corrosion/irritation:	24	h	Rabbit		Not irritant,
					Repeated
					exposure
					may cause
					skin dryness
					or cracking.
Serious eye			Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:				Eye	
				Irritation/Corrosio	
				n)	
Respiratory or skin			Guinea pig	OECD 406 (Skin	No (skin
sensitisation:				Sensitisation)	contact)
Germ cell mutagenicity:			Salmonella	OECD 471	Negative
			typhimuri	(Bacterial Reverse	
			um	Mutation Test)	
Germ cell mutagenicity:			Mammalia	OECD 473 (In	Negative
			n	Vitro Mammalian	
				Chromosome	
				Aberration Test)	
Germ cell mutagenicity:			Mammalia	OECD 474	Negative
			n	(Mammalian	
				Erythrocyte	
				Micronucleus	
				Test)	
Carcinogenicity:					Negative
Reproductive toxicity:					Negative
Aspiration hazard:					No





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Symptoms:						lack of
25						appetite,
						breathing
						difficulties,
						drowsiness,
						unconsciousn
						ess, drop in
						blood
						pressure,
						cornea
						opacity,
						coughing,
						headaches,
						gastrointestin
						al
						disturbances,
						intoxication,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						salivation,
						nausea and
						vomiting.,
Specific target organ	NOAEL	900	mg/kg	Rat	Regulation (EC)	fatigue
toxicity - repeated	NOAEL	900	bw/d	Kat	440/2008 B.26	
			DW/U		(SUB-CHRONIC	
exposure (STOT-RE), oral:					,	
orai:					ORAL TOXICITY TEST	
					REPEATED	
					DOSE 90 - DAY	
Cmacific tont	NOAEI	0.002	ma ca /1	Dat	(RODENTS))	
Specific target organ	NOAEL	0,002	mg/kg	Rat	Regulation (EC)	
toxicity - repeated					440/2008 B.29	
exposure (STOT-RE),					(SUB-CHRONIC	
inhalat.:					INHALATION	
					TOXICITY	
					STUDY 90-DAY	
					REPEATED	
					(RODENTS))	

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10								
μm) Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)			





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Acute toxicity, by	LD50	>5000	mg/kg	Rabbit		
dermal route:	7.7.70		77.15			
Acute toxicity, by inhalation:	LD50	>6,8	mg/l/4h	Rat		
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, Mechanical irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammalia n	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect.
Specific target organ toxicity - single exposure (STOT-SE):						Not irritant (respiratory tract).





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Symptoms:					mucous membrane irritation, coughing, respiratory distress, drying of the skin.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	3500	mg/kg/ d	Rat	90d
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	10	mg/m3	Rat	90d

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
•	nt					
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	>2800	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	Vapours
inhalation:					Inhalation	
					Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Skin corrosion/irritation:						Repeated
						exposure
						may cause
						skin drynes
						or cracking.
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:					Sensitisation)	sensitizising
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	





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Germ cell mutagenicity:		2000	mg/kg	Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity:	LOAEL	9000	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Negative
Aspiration hazard:						Yes
Symptoms:						drowsiness, unconsciousn ess, heart/circulat ory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting.

Propan-2-ol							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute		
route:					Oral Toxicity)		
Acute toxicity, by	LD50	12800-	mg/kg	Rabbit	OECD 402 (Acute		
dermal route:		13900			Dermal Toxicity)		
Acute toxicity, by	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute	Vapours	
inhalation:					Inhalation	_	
					Toxicity)		





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Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat		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)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	(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: Symptoms:						No breathing difficulties,
						unconscious ess, vomiting, headaches, fatigue, dizziness,
						nausea, eyes, reddened, watering eyes





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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)

Propane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses,
inhalation:			4h			Male,
						Analogous
						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye						Not irritant
damage/irritation:						
Germ cell mutagenicity:					OECD 473 (In	Negative
2 ,					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
,·				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Reproductive toxicity	NOAEC	21,641	mg/l	<b>WIII</b>	OECD 422	
(Developmental		,			(Combined	
toxicity):					Repeated Dose	
					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Aspiration hazard:					Serecining Test)	No
Symptoms:						breathing
zymptomo.						difficulties,
						unconscious
						ess,
						frostbite,
						headaches,
						cramps,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.





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Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)

Barium sulphate	Barium sulphate						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	>15000	mg/kg	Rat	IUCLID Chem.		
route:					Data Sheet (ESIS)		
Acute toxicity, by	LD50	>2000		Rat		Analogous	
dermal route:						conclusion	
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant	
					Dermal		
					Irritation/Corrosio		
					n)		
Serious eye				Rabbit	OECD 405 (Acute	Not irritant	
damage/irritation:					Eye		
					Irritation/Corrosio		
					n)		
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin	
sensitisation:					Sensitisation -	contact),	
					Local Lymph	Analogous	
					Node Assay)	conclusion	
Germ cell mutagenicity:						Negative	

Talc						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rat		
dermal route:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Skin corrosion/irritation:						Not irritant





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Respiratory or skin sensitisation:			Not sensitizising
Germ cell mutagenicity:		OECD 471	Negative
		(Bacterial Reverse	
		Mutation Test)	
Carcinogenicity:			Negative
Reproductive toxicity:	Rat		Negative
Symptoms:			mucous
			membrane
			irritation

Isobutane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Acute toxicity, by	LC50	260000	ppmV/	Rat		Gasses, Male
inhalation:			4h			
Serious eye				Rabbit		Not irritant
damage/irritation:						
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Aspiration hazard:						No
Symptoms:						unconsciousn
						ess,
						frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

# 11.2. Information on other hazards

Marking Spray plus Yellow 500 ml										
Art.: 9094958										
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes				
	nt									
Endocrine disrupting						Does not				
properties:						apply to				
						mixtures.				





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

# **SECTION 12: Ecological information**

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

Marking Spray plu Art.: 9094958	is Yellow 500	ml					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Endocrine							Does not
disrupting							apply to
properties:							mixtures.
12.7. Other							No
adverse effects:							information
							available on
							other
							adverse
							effects on
							the
							environment
Other information:							DOC-
							elimination
							degree(comp
							lexing
							organic
							substance)>=
							80%/28d:
							n.a.





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Ethyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to	EC10	18h	2900	mg/l	Pseudomonas		
bacteria:					putida		
12.1. Toxicity to	LC50	48h	333	mg/l	Leuciscus idus		
fish:				_			
12.1. Toxicity to	NOEC/NO	32d	>9,65	mg/l	Pimephales		
fish:	EL				promelas		
12.1. Toxicity to	LC50	96h	230	mg/l	Pimephales		
fish:					promelas		
12.1. Toxicity to	EC50	48h	610	mg/l	Daphnia	DIN 38412	
daphnia:					magna	T.11	
12.1. Toxicity to	NOEC/NO	21d	2,4	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	48h	165	mg/l			Daphnia
daphnia:							cucullata
12.1. Toxicity to	EC50	48h	5600	mg/l	Desmodesmus	DIN 38412	
algae:					subspicatus	T.9	
12.1. Toxicity to	NOEC/NO	96h	2000	mg/l	Scenedesmus	OECD 201	
algae:	EL				subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	EC50	96h	>2000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	NOEC/NO	72h	>100	mg/l	Desmodesmus	OECD 201	
algae:	EL				subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	EC50	48h	3300	mg/l	Scenedesmus		
algae:		-0:			subspicatus		
12.2. Persistence		20d	79	%		OECD 301 D	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Closed	
						Bottle Test)	
12.3.	BCF	72h	30				(Fish)
Bioaccumulative							
potential:							





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12.3.	Log Kow		0,68			OECD 107	Bioaccumula
Bioaccumulative						(Partition	tion is
potential:						Coefficient (n-	unlikely
						octanol/water)	(LogPow <
						- Shake	1).25 °C
						Flask Method)	
12.4. Mobility in	H (Henry)		0,000	atm*m			
soil:			12	3/mol			
12.4. Mobility in	Koc		3				
soil:							
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC10	16h	2900	mg/l	Escherichia		
bacteria:					coli		
Toxicity to	EC50	15min	5870	mg/l	Photobacteriu		
bacteria:					m		
					phosphoreum		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchne riella subcapitata	U.S. EPA- 600/9-78-018	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected
12.3. Bioaccumulative potential:	BCF	14d	19- 352				Oncorhynchu s mykiss
12.4. Mobility in soil:							Negative
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:			>5000	mg/l	Escherichia coli		





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Toxicity to	LC0	24h	>1000	mg/l	Pseudomonas	
bacteria:			0		fluorescens	
Toxicity to	NOEC/NO		>1000	mg/kg	Eisenia	
annelids:	EL				foetida	
Water solubility:						Insoluble20°
						C

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.7. Other	_						Product
adverse effects:							floats on the
							water
							surface.
12.3.							Not to be
Bioaccumulative							expected(eva
potential:							poration)
12.1. Toxicity to	NOELR	28d	0,574		Oncorhynchus		
fish:					mykiss		
12.1. Toxicity to	LC50	96h	3 - 10	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EL50	48h	4,6 -	mg/l	Daphnia	OECD 202	
daphnia:			10		magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOELR	21d	1 -1,6	mg/l	Daphnia	OECD 211	
daphnia:					magna	(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	NOEC/NO	72h	10	mg/l	Pseudokirchne	OECD 201	
algae:	EL				riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	EL50	72h	10	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	98	%		OECD 301 F	Completely
and degradability:						(Ready	biodegradab
						Biodegradabil	e.
						ity -	
						Manometric	
	I					Respirometry	





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12.5. Results of PBT and vPvB assessment						No PBT substance, No vPvB substance
Toxicity to	EL50	48h	11,14	mg/l		calculated
bacteria:						value

Propan-2-ol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative	BCF		3,2				Low
potential:							
12.1. Toxicity to	LC50	96h	>100	mg/l	Leuciscus idus		
fish:	Leso	7011	7100	liig/i	Leuciscus idus		
12.1. Toxicity to	LC50	96h	1400	mg/l	Lepomis		
fish:	2000	7011	1.00	1116/1	macrochirus		
12.1. Toxicity to	EC50	48h	2285	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	16d	141	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	72h	>100	mg/l	Desmodesmus		
algae:					subspicatus		
12.2. Persistence		21d	95	%		OECD 301 E	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Modified	
						OECD	
						Screening	
						Test)	
12.2. Persistence			99,9	%		OECD 303 A	Readily
and degradability:						(Simulation	biodegradabl
						Test -	e
						Aerobic	
						Sewage	
						Treatment -	
						Activated	
						Sludge Units)	
12.3.	Log Pow		0,05			OECD 107	Slight
Bioaccumulative						(Partition	
potential:						Coefficient (n-	
						octanol/water)	
						- Shake	
						Flask Method)	
12.4. Mobility in	Koc		1,1				Expert
soil:							judgement
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC50		>1000	mg/l	activated		
bacteria:					sludge		





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Toxicity to	EC10	16h	1050	mg/l	Pseudomonas	
bacteria:					putida	
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		

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.	Log Pow		2,28				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Barium sulphate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>3,5	mg/l	Brachydanio	OECD 203	Analogous
fish:					rerio	(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	33d	>1,26	mg/l	Brachydanio	OECD 210	Analogous
fish:	EL				rerio	(Fish, Early-	conclusion
						Life Stage	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	21d	2,9	mg/l	Daphnia	OECD 211	Analogous
daphnia:	EL				magna	(Daphnia	conclusion
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	EC50	48h	14,5	mg/l	Daphnia	OECD 202	Analogous
daphnia:					magna	(Daphnia sp.	conclusion
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	ErC50	72h	>1,15	mg/l	Pseudokirchne	OECD 201	Analogous
algae:					riella	(Alga,	conclusion
					subcapitata	Growth	
						Inhibition	
						Test)	





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12.1. Toxicity to	NOEC/NO	72h	>1,15	mg/l	Pseudokirchne	OECD 201	Analogous
algae:	EL		,		riella	(Alga,	conclusion
					subcapitata	Growth	
					_	Inhibition	
						Test)	
12.2. Persistence							Not
and degradability:							biodegradabl
							e, Inorganic
							products
							cannot be
							eliminated
							from water
							through
							biological
							purification
							methods.
12.5. Results of							n.a.
PBT and vPvB							
assessment							

Talc							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Water solubility:			<0,1	%			
12.2. Persistence							Not relevant
and degradability:							for inorganic
							substances.
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:							A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and degradability:							Readily biodegradabl e





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12.5. Results of				No PBT
PBT and vPvB				substance,
assessment				No vPvB
				substance

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

#### 13.1 Waste treatment methods

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

EC disposal code no.:

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

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

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

## For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

# **SECTION 14: Transport information**

#### **General statements**

14.1. UN number or ID number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):

14.4. Packing group:

Classification code:

LQ:

5F

LQ:

1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

**AEROSOLS** 

14.3. Transport hazard class(es): 2.1 14.4. Packing group: -

EmS: F-D, S-U
Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable









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#### Transport by air (IATA)

14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es):
2.1
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

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 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.):

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

Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
P3a	11.1	150 (netto)	500 (netto)

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 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:								
Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity				
	substances		(tonnes) for the	(tonnes) for the				
			application of -	application of -				
			Lower-tier	Upper-tier				
			requirements	requirements				
18	Liquefied	19	50	200				
	flammable gases,							
	Category 1 or 2							
	(including LPG)							
	and natural gas							

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.







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Directive 2010/75/EU (VOC): 567,6 g/l

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections:

1-16

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 $(EG)\ 1272/2008\ (CLP)$ :

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

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.

H351 Suspected of causing cancer by inhalation.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid

Carc. — Carcinogenicity

Asp. Tox. — Aspiration hazard

#### 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.



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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)

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,  $E\mu$ Cx, 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



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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

IUCLID International Uniform Chemical Information Database

IUPACInternational 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 applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH 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. 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

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.





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No responsibility.