acc	ording to Regulat	ion (EC) No. 190	07/2006 (REACH)			
Revis	ade name : sion date : date :	<b>Lithofin B</b> 03.03.2021 13.04.2021	ERO Version (Revision) :	4.2.0 (4.1.0		
SEC	TION 1: Identific	ation of the sub	stance/mixture and of the company/ un	dertaking		
L.1	Product identifie		· · · · · · · · · · · · · · · · · · ·			
L.2	Lithofin BERO 2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses Mixture Washing and cleaning products, acidic					
3	Supplier					
	Distributor :		Casdron Enterprises Ltd.			
	Street :		Wood End, Prospect Road			
	Postal code/city :		GB- New Alresford, Hants SO 24 9QF			
	Telephone :		+44 1962 732126			
	Telefax :		+44 1962 735373			
	Contact :		Technical Department E-mail: sales@lithofin.co.uk			
			Emergency telephone number: 0196 2732126 (Only available during office hours)			
	Supplier :		Lithofin AG			
	Street :		Heinrich-Otto-Str. 36			
	Postal code/city :		73240 Wendlingen			
	Telephone :		+49 (0)7024 9403-0			
	Telefax :		+49 (0)7024 9403-40			
	Contact :		Technical Department E-mail: info@lithofin.de			
			Emergency telephone number: +49 (0)7024 9403-0 (Only available during office hours)			
.4	Emergency telep see section 1.3	ohone number	(only available during once hours)			
SEC	TION 2: Hazards	identification				
2.1	Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 - Additional infor The mixture is classi Remark Full text of H- and E Label elements	ccording to Regu - Corrosive to metals : - Skin corrosion/irritat Serious eye damage/e mation fied as hazardous acco UH-statements: see see ding to Regulatio	<b>ulation (EC) No 1272/2008 [CLP]</b> Category 1 ; May be corrosive to metals. ion : Category 1B ; Causes severe skin burns and eye da eye irritation : Category 1 ; Causes serious eye damage. rding to regulation (EC) No 1272/2008 [CLP].	mage.		

	Safety Data Sheet (EN / D according to Regulation (EC) No. 1907/2006 (REACH)						
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	$\wedge$						
	Corrosion (GHS05)						
	Signal word						
	Danger Hazard component	a for labolling					
	PHOSPHORIC ACID ;						
	Hazard statements						
	H290	May be corrosive to metals.					
	H314	Causes severe skin burns and ey	e damage.				
	Precautionary state		5				
	P102	Keep out of reach of children.					
	P234	Keep only in original packaging.					
	P280	Wear protective gloves/protectiv	ear protective gloves/protective clothing/eye protection/face protection. SWALLOWED: rinse mouth. Do NOT induce vomiting.				
	P301+P330+P331	IF SWALLOWED: rinse mouth. D					
	P305+P351+P338		h water for several minutes. Remove conta	act lenses, if preser			
		and easy to do. Continue rinsing					
	P405	Store locked up.					
	•	pplemental label elements for o					
	EUH208	Contains Hydroxyethylated 2-but	tyne-1,4-diol.May produce an allergic react	lion.			
2.3	Other hazards						
~ ^	None						
2.4	Additional inform	ation					
	see section 12.5						
SEC	TION 3: Composit	ion/information on ingre	dients				
3.2	Mixtures						
	Hazardous ingredie						
	,	,	EC No. : 231-633-2; CAS No. : 7664-38-2				
	Weight fraction :	≥ 30 - < 35 %					
	Classification 1272/20 Specific Conc. Limits	: Eye Dam. 1 ; H318: 0	Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 C ≥ 25 % • Skin Corr. 1B ; H314: C ≥ 25 % • re Irrit. 2 ; H319: C ≥ 10 % • Skin Irrit. 2 ; H				
	Hydroxyethylated 2-bu	tyne-1,4-diol ; REACH No. : 01-21199	70539-23-xxxx ; EC No. : 608-711-3; CAS No	. : 32167-31-0			
	Weight fraction :	≥ 0,1 - < 0,5 %					
	Classification 1272/20	008 [CLP] : STOT RE 2 ; H373 A	cute Tox. 4 ; H302 Skin Sens. 1 ; H317				

None (below the concentration limit)

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None (below the concentration limit)

#### Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation. Full text of H- and EUH-statements: see section 16.

# **SECTION 4: First aid measures**

4.1 Description of first aid measures General information

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When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### After ingestion

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

# 4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically. **Special treatment** 

First Aid, decontamination, treatment of symptoms.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Water spray jet ABC-powder Foam

#### Unsuitable extinguishing media

Full water jet Strong water jet

# 5.2 Special hazards arising from the substance or mixture Hazardous combustion products

Carbon monoxide Carbon dioxide (CO2)

#### 5.3 Advice for firefighters

Use suitable breathing apparatus.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

#### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

#### For cleaning up

	fety Data She	e <b>t</b> ion (EC) No. 1907/2006 (RE		( EN / D
	ording to Regulat	1011 (EC) NO. 1907/2000 (RE	ACH)	
<b>r</b> a	ade name :	Lithofin BERO		
	sion date : date :	03.03.2021 13.04.2021	Version (Revision) :	4.2.0 (4.1.0)
	Clean contaminated	taking up: Universal binder articles and floor according to the envir use of waste according to applicable legi		ed washing water
	Other informati	on		
.4	Reference to oth	er sections		
	Safe handling: see see Personal protection ec Disposal: see section	uipment: see section 8		
EC	TION 7: Handling	and storage		
.1	Precautions for s When using do not ea	-		
	Protective measure			
	Skin contact Eye con the removal of produ ventilation is not pos measures and the ap <b>Measures to preve</b>	nust always be designed so that the folk tact Wear personal protection equipmer ict. Do not breathe gas/fumes/vapour/s sible or not sufficient, the entire workin oplication of suitable work processes have ent fire Flammable Usual measures for fire prev	nt (refer to section 8). Always close con pray. Use only in well-ventilated areas. g area must be ventilated by technical r ve priority over personal protection equi	tainers tightly afte If local exhaust means. Technical
	Shake well befor	euse No		
	Advices on gen	eral occupational hygiene		
	P362+P364 - Take o	ff contaminated clothing and wash it be	fore reuse.	
.2	Conditions for sa	afe storage, including any in	compatibilities	
	-	or storage rooms and vesse		
	absorbent. Ensure a	y closed. Keep/Store only in original cordequate ventilation of the storage area.	ntainer. The floor should be leak tight, j	ointless and not
	Hints on joint s Storage class (TR	-		
		prage temperature 5 - 25 °C		
	Protect from frost			
	Further informa	ition on storage conditions		
		out of reach of children. Keep container	tightly closed in a cool, well-ventilated	place.
.3	Specific end use	(s)		
	Recommendation	on		
	Observe technical da	ta sheet. Observe instructions for use.		
EC	TION 8: Exposure	e controls/personal protection	on	
8.1	<b>Control paramet</b>	ers		
	Occupational ex	kposure limit values		
	PHOSPHORIC ACID ;			
	Limit value type (cou Parameter :	untry of origin): TRGS 900 ( D ) E: inhalable fraction		
	Limit value :	2 mg/m <sup>3</sup>		
	Peak limitation :	2(I)		
	Remark :	Y		
	Version :	27.10.2020		
		untry of origin) : STEL ( EC )		
	Limit value :	2 mg/m <sup>3</sup>		
		Page : 4 /	12	
				( EN / [

(EN/D)

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ccording to Regula				
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evision date :	03.03.2021		Version (Revision) :	4.2.0 (4.1.0)
int date :	13.04.2021			
Version :		20.06.2019		
Limit value type (co	untry of origin) :			
Limit value :	and y or originy r	$1 \text{ mg/m}^3$		
Version :		20.06.2019		
DNEL-/PNEC-v	alues			
DNEL/DMEL				
PHOSPHORIC ACID	; CAS No. : 7664-	38-2		
Limit value type :		DNEL Consumer (local)		
Exposure route :		Inhalation		
Exposure frequer	ncy:	Long-term		
Limit value :		0,73 mg/m <sup>3</sup>		
Limit value type :		DNEL worker (local)		
Exposure route : Exposure frequer		Inhalation		
Exposure frequer Limit value :	icy :	Long-term 2,92 mg/m <sup>3</sup>		
	-hutype-1 4-diol ·	CAS No. : 32167-31-0		
Limit value type :	butyfic 1, I diol ,	DNEL worker (systemic)		
Exposure route :		Dermal		
Exposure frequer	ncy:	Long-term		
Limit value :		1,39 mg/kg		
Limit value type :		DNEL worker (systemic)		
Exposure route :		Inhalation		
Exposure frequer	ncy:	Short-term		
Limit value :		19,6 mg/m <sup>3</sup>		
Limit value type :		DNEL worker (systemic) Inhalation		
Exposure route : Exposure frequer		Long-term		
Limit value :	icy .	9,8 mg/m <sup>3</sup>		
PNEC				
Hydroxyethylated 2-	-butyne-1,4-diol;	CAS No. : 32167-31-0		
Limit value type :		PNEC (Aquatic, freshwater)		
Limit value :		0,1 mg/l		
Limit value type :		PNEC (Aquatic, intermittent release)		
Limit value :		1 mg/l		
Limit value type :		PNEC (Aquatic, marine water)		
Limit value :		0,01 mg/l		
Limit value type : Limit value :		PNEC (Sediment, freshwater)		
Limit value type :		0,37 mg/kg PNEC (Sediment, marine water)		
Limit value :		0,037 mg/kg		
Limit value type :		PNEC (Soil)		
Limit value :		0,0153 mg/kg		
Limit value type :		PNEC (Sewage treatment plant)		
Limit value :		100 mg/l		
2 Exposure contro	ols			
Appropriate en Ensure adequate ve				
Technical measures	and the applicat	ion of suitable work processes have	e priority over personal prote	ection equipment.
Personal protect		nent		
Eye/face proto Suitable eye prot Eye glasses with	tection	ogales		
Required proper DIN EN 166	-	<u> </u>		
Skin protectio	n			
		$P_{200} \cdot 5 / 12$		
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# Hand protection

Suitable gloves type : Gloves with long cuffs

**Suitable material** : NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

**Recommended glove articles** : Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

#### Additional hand protection measures : Check leak tightness/impermeability prior to use.

**Remark** : Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams are not substitutes for body protection.

#### **Body protection**

Protective clothing.

**Suitable protective clothing** : Chemical protection clothing Chemical resistant safety shoes **Required properties** : acid-resistant.

Protective clothing. : DIN EN 13034 DIN EN 14605

Chemical resistant safety shoes : DIN EN ISO 20345

**Remark** : Barrier creams are not substitutes for body protection.

#### **Respiratory protection**

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

#### Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

#### Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### **General information**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

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

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

Appearance :	liquid					
Colour :	colourless					
Odour :	odourless					
Safety charact	eristics					
Melting point/free		(1013 hPa)	approx.	-10	°C	
Initial boiling point range :	t and boiling	( 1013 hPa )	approx.	103	°C	
Decomposition tem	perature :	(1013 hPa)		not determined		
Flash point :				not applicable		closed cup (EN ISO 3679)
Auto-ignition temp	erature :			not determined		
Sustaining combus	tion			No		UN Test L2:Sustained combustibility test
Lower explosion lin	nit :			not determined		
Upper explosion lin	nit :			not determined		
Vapour pressure :		(50 ℃)	<	3000	hPa	
Density :		( 20 °C )		1,21	g/cm <sup>3</sup>	Pyknometer (DIN EN ISO 2811-1)
Solvent separation	test :	( 20 °C )	<	3	%	Test L1: Solvent separation test (UN)
Water solubility		( 20 °C )		miscible		

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рН :		approx.	0		DIN 19268
log P O/W :			not determined		(Mixture)
Flow time :	( 23 °C )	<	15	S	ISO cup 4 mm (DIN EN ISO 2431)
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC content-EC			0,4	Wt %	*
VOC content-EC			5	g/l	*
VOC-France			not applicable		Décret no 2011-321 du 23 mars 2011

(\* VOC-EC = "Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

#### 9.2 Other information

None

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

## **10.2 Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### **10.4 Conditions to avoid**

Stable under recommended storage and handling conditions.

#### **10.5 Incompatible materials**

The product develops hydrogen in an aqueous solution in contact with metals.

#### **10.6 Hazardous decomposition products**

Does not decompose when used for intended uses.

#### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

based on available data, the classific	
Acute oral toxicity	
Parameter :	LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	2600 mg/kg
Parameter :	LD50 (Hydroxyethylated 2-butyne-1,4-diol ; CAS No. : 32167-31-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	300 - 2000 mg/kg
Acute dermal toxicity	
Parameter :	LD50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2740 mg/kg
Parameter :	LD50 (Hydroxyethylated 2-butyne-1,4-diol ; CAS No. : 32167-31-0 )
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 5000 mg/kg

Trade name :			
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_	s (Longterm animal experime	-	
	available on the preparation/mixture itself		
Corrosion			
	burns and eye damage.		
• •	skin sensitisation		
	data, the classification criteria are not me		
•	toxicity (subacute, subchror		
	vailable on the preparation/mixture itself		
•	arcinogenicity, mutagenicity	and toxicity for reproduction	n)
Carcinogenicity	e data, the classification criteria are not m	ot	
Germ cell mutage	•		
	e data, the classification criteria are not m	et.	
Reproductive tox	-		
•	e data, the classification criteria are not m	et.	
STOT-single ex	posure		
Based on available of	data, the classification criteria are not me	t.	
STOT-repeated	l exposure		
Based on available of	data, the classification criteria are not me	t.	
Aspiration haza	ard		
-		+	
Based on available of	data, the classification criteria are not me	l.	
Based on available of <b>11.2 Information on</b>		u.	

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Aquatic toxicity**

Based on available data, the classification criteria are not met.

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter :	EC50 (PHOSPHORIC ACID ; CAS No. : 7664-38-2)
Species :	Daphnia
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202

#### Sewage treatment plant

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

#### 12.2 Persistence and degradability

There are no data available on the preparation/mixture itself.

#### Biodegradation

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### 12.3 Bioaccumulative potential

There are no data available on the preparation/mixture itself.

#### 12.4 Mobility in soil

There are no data available on the preparation/mixture itself.

#### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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12.6 Endocrine disrup No information availab	ple.	es		
12.7 Other adverse ef There are no data ava		ration/mixture itself		
12.8 Additional ecoto Additional informat The product has not	xicological inf			
SECTION 13: Disposa	al consideratio	ns		
	ording to applicable ling to directive 200	legislation. 8/98/EC, covering waste and <b>E Framework Directiv</b>	-	
Before intended us Waste codes/was Waste code (EWC	se ste designations a /AVV) : 06 01 06*	according to EWC/AVV		
cannot be properly	er into surface wate cleaned must be di		ed packages may be recycled. roved waste disposal compan	
cannot be properly	kages must be com y cleaned must be c	lisposed of.	e-used following proper cleani	ing. Packing which
Waste code packa		according to EWC/AVV		
13.2 Additional inform				
These codes are assig resulting from actual u		e most common uses for this	material and may not reflect of	contaminants
SECTION 14: Transpo	ort informatio	n		
<b>14.1 UN number</b> UN 1760				
14.2 UN proper shipp	-			
Land transport (AD CORROSIVE LIQUID, Sea transport (IMD	N.O.S. (PHOSPHOP	RIC ACID )		
CORROSIVE LIQUID, Air transport (ICAO CORROSIVE LIQUID,	-TI / IATA-DGR)			
14.3 Transport hazard	•			
Land transport (AD	R/RID)	0		
Class(es) : Classification code	:	8 C9		
Hazard identification No.) :	on number (Kemle	r 80		
Tunnel restriction of	code :	E		
Special provisions : Hazard label(s) :	1	LQ 1   · E 2 8		
Sea transport (IMD	G)			
Class(es) : EmS-No. :		8 F-A / S-B		
Special provisions : Hazard label(s) :		LQ 1 I · E 2 · IMDG-Code seg 8	gregation group 1 - Acids	

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Air transport (ICAO Class(es) :	<b>-TI / IATA-DGR)</b> 8		
Special provisions			
Hazard label(s) :	8		
4.4 Packing group			
4.5 Environmental h	azards		
Land transport (AD	R/RID): No		
Sea transport (IMD	•		
4.6 Special precaution	O-TI / IATA-DGR): No		
None			
4.7 Maritime transp	ort in bulk accordin	ng to IMO instruments	
Not required.			
ECTION 15: Regulat	tory information		
5.1 Safety, health a	nd environmental r	egulations/legislation specific for the	e substance o
mixture			
EU legislation	0 1907/2006 OF THE FUR	OPEAN PARLIAMENT AND OF THE COUNCIL concern	ing the
		triction of Chemicals (REACH)	
		OPEAN PARLIAMENT AND OF THE COUNCIL on class	ification, labelling
	bstances and mixtures (clp /EC OF THE EUROPEAN PA	) RLIAMENT AND OF THE COUNCIL on waste (2000/5	32/EC)
EN 2:1992 (DIN EN	2:2005-01)	•	. ,
Authorisations and Restrictions on u	d/or restrictions on use		
	se cording to REACH annex XV	/II, no.: 3	
Restrictions of o	-		
		nils according to the 'juvenile work protection guideli	
mothers.	ient restrictions under the r	Maternity Protection Directive (92/85/EEC) for expect	tant or nursing
Other regulations	(EU)		
	. 648/2004 (Detergents reg		vielce veleted to
		tection of the health and safety of workers from the EC, Directive 2006/15/EC, Directive 2009/161/EC)	risks related to
REGULATION (EU)	No 649/2012 OF THE EUR	OPEAN PARLIAMENT AND OF THE COUNCIL concern	ning the export an
	s chemicals [PIC-Regulation		arkoting and use
explosives precurso	-	PEAN PARLIAMENT AND OF THE COUNCIL on the m	
Regulation (EC)	No. 1005/2009 on subst	tances that lead to the depletion of the ozone	layer
Not listed.	wing substances that deple	te the ozone laver: -	
	No 850/2004 [POP-Reg	•	
Not listed.	,, <b>L</b> ,,		
	stent organic pollutant (PO	)P): -	
National regulation Observe in addition	s any national regulations!		
Germany:	, 0		
TRGS 400 (Risk asse TRGS 500 (Protective		ing hazardous substances)	
		non-stationary containers)	
	instruction and information	n for workers)	
Water hazard clas		lightly hazardous to water)	
	-		
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Other regulations Switzerland	, restrictions and prohibition regula	tions			
VOCV-Regulation	on				
Maximum VOC o	content (Switzerland) : < 3 Wt % a	ccording to VOCV			
Austria					
-	Flammable Liquids - VbF				
VbF-Class : NL					
15.2 Chemical safety	ixture a chemical safety assessment has	not been corried out			
L5.3 Additional infor		not been carried out.			
	mation				
SECTION 16: Other i	nformation				
16.1 Indication of ch	anges				
02. Label elements					
	07. Hints on joint storage - Storage class	5			
16.2 Abbreviations a		5			
16.2 Abbreviations a ABC-Pulver					
	nd acronyms				
ABC-Pulver	nd acronyms Extinguishing powder for fire class combination filter		Goods by Road		
ABC-Pulver ABEK-P1	nd acronyms Extinguishing powder for fire class combination filter	A, B and C le International Carriage of Dangerous (	Goods by Road		
ABC-Pulver ABEK-P1 ADR	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Was	A, B and C le International Carriage of Dangerous (	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Was	A, B and C le International Carriage of Dangerous ( te Regulation)	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Was Ordinance on facilities for the hand	A, B and C le International Carriage of Dangerous ( te Regulation)	Goods by Road		
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ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca.	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Was Ordinance on facilities for the hand BG rules and regulations circa	A, B and C le International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca. CAS	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning the Abfallverzeichnis-Verordnung (Wass Ordinance on facilities for the hand BG rules and regulations circa Chemical Abstracts Service classification, labelling and packagi	A, B and C te International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca. CAS CLP	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Was Ordinance on facilities for the hand BG rules and regulations circa Chemical Abstracts Service	A, B and C te International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca. CAS CLP CMR	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Wass Ordinance on facilities for the hand BG rules and regulations circa Chemical Abstracts Service classification, labelling and packagi Carcinogen, mutagen or toxic for re	A, B and C te International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca. CAS CLP CMR DIN DNEL	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Wast Ordinance on facilities for the hand BG rules and regulations circa Chemical Abstracts Service classification, labelling and packagi Carcinogen, mutagen or toxic for re German Institute for Standardization Derived No-Effect Level	A, B and C te International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca. CAS CLP CMR DIN DNEL EAK/EWC/EAC/CWR/	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning th Abfallverzeichnis-Verordnung (Was Ordinance on facilities for the hand BG rules and regulations circa Chemical Abstracts Service classification, labelling and packagi Carcinogen, mutagen or toxic for re German Institute for Standardization	A, B and C te International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		
ABC-Pulver ABEK-P1 ADR AVV AWSV BGR ca. CAS CLP CMR DIN DNEL	nd acronyms Extinguishing powder for fire class combination filter European Agreement concerning the Abfallverzeichnis-Verordnung (Wass Ordinance on facilities for the hand BG rules and regulations circa Chemical Abstracts Service classification, labelling and packagi Carcinogen, mutagen or toxic for re German Institute for Standardization Derived No-Effect Level /CER European Waste Catalogue	A, B and C te International Carriage of Dangerous ( te Regulation) ling of substances hazardous to water	Goods by Road		

EC50 / CE50	Effective Concentration 50%
EG / EC / CE	European Community
EN	European Standard
EUH	supplemental hazard statement of the european union
GefStoffV	Gefahrstoffverordnung (Hazardous Substances Ordinance)
GHS / SGH	Globally Harmonised System
H-Sätze	hazard statements
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC50 / CL50	Lethal Concentration 50%
LD50 / DL50	Lethal Dose 50%
log P O/W	Partition coefficient n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (marine pollution)
NOAEL (DSET)	No observed adverse effect level
NOEC (CSEO)	No observed effect concentration

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Nr.	Number			
OECD	Organisation for Economic Co	-operation and Development		
PBT	persistent, bioaccumulative and toxic			
рH	Potentia hydrogenii			
PIC	prior informed consent			
PNEC	Predicted No-Effect Concentration			
POP	Persistent organic pollutants			
P-Sätze	precautionary statements			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals			
RID	International Carriage of Dangerous Goods by Rail			
STEL / LECT	short-term exposure limit			
TRGS	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)			
TWA / MPT	time-weighted average			
UN/ONU	United Nations			
VOC/COV/VOS/LZO	Volatile Organic Compound			
VOCV	Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)			
vPvB	very persistent and very bioac	cumulative		
WGK	Wassergefährdungsklasse (Wa	ater hazard class)		

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu. For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### 16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ECHA: Registered substances (https://echa.europa.eu/information-on-chemicals/registered-substances) REACH Article 59: Candidate List of substances of very high concern for Authorisation (https://echa.europa.eu/candidate-list-table)

# <sup>16.4</sup> Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard statements for physical hazards : On basis of test data. Hazard statements for health hazards : Calculation method. Hazard statements for environmental hazards : Calculation method.

#### 16.5 Relevant H- and EUH-phrases (Number and full text)

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H373 May cause damage to organs through prolonged or repeated exposure.

#### 16.6 Training advice

None

#### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.