Article Print d Versio	late:	398 26.12.20 8.0	22	PUROL Aktiv-Reini Revision date: 10.1 Issue date: 10.12.2	2.2022		EN Page 1 / 9
SEC	TION 1: Id	entificatio	on of the	substance/mixtu	re and of	the compa	ny/undertaking
1.1.	<b>Product id</b> Article No. Trade nam	(manufactu		lier)	398 PUROL A	ktiv-Reiniger	
1.2.	Relevant i	dentified u	ses of th	e substance or mix	ture and u	ses advised	against
4.0	•	aterial to pr	otecting				
1.3.				safety data sheet rter/downstream us	or/dictribut	for)	
	Knuchel Fa		renninpo		enuistiibu	.01)	
	Farben + L Steinacker CH-4537 V					e: +41 (0) 32 41 (0) 32 636	
	-	-	ible for i	nformation:			
1.4.	laboratory E-mail (cor Emergenc	npetent per	-		info@knu	chel.ch	
1.4.	Emergency			•	145 (+41	(0)44 251 51	51)
SEC	TION 2: Ha	azards ide	entificati	on			
2.1.	Classifica	tion of the	substan	ce or mixture			
	Classifica	tion accore	ding to R	egulation (EC) No 1	272/2008 [	CLP]	
	The mixtur	e is classifi	ed as haz	zardous according to	regulation	(EC) No 1272	2/2008 [CLP].
	Skin Irrit. 2 Eye Irrit. 2			Skin corrosion/irritat Serious eye damage		on	Causes skin irritation. Causes serious eye irritation.
2.2.	Label elen						
			to Regul	ation (EC) No. 1272	/2008 [CLP	1	
	Hazard pie	ctograms					
		Warnir	ng				
	Hazard sta H315 H319	atements		skin irritation. serious eye irritation.			
	Precaution	nary stater		,			
	P101			al advice is needed, h		ct container o	or label at hand.
	P102 P103			t of reach of children refully and follow all i			
	P264		Wash ha	ands thoroughly after	handling.		
	P280 P302 + P3 P305 + P3		IF ON S	otective gloves and e KIN: Wash with plent ES: Rinse cautiously	y of soap a	nd water.	ninutes. Remove contact lenses, if present and
	P332 + P3 P337 + P3 P362 + P3	13 13	easy to o If skin in If eye irr	do. Continue rinsing. itation occurs: Get m itation persists: Get n contaminated clothir	nedical advi	ce/attention. ice/attention.	
	Hazard co	mponents	for label not appl	-			
	Suppleme	ntal hazar		ation			
2.3.	Other haz	ards	- <b></b>				
	No informa	tion availal	ole.				

**SECTION 3: Composition/information on ingredients** 

t date: sion:	398 26.12.2022 8.0	PUROL Aktiv-Reiniger Revision date: 10.12.2022 Issue date: 10.12.2022	EN Page 2 / 9	
Mixture	s			
Descrip	tion polyis	ocyanate based preparation, containing	the following hazardous substances	:
Classifi	cation according to	Regulation (EC) No 1272/2008 [CLP]		
EC No.		H No.		
CAS No	. Desig	nation		weight-%
Index N	o. class	fication: // Remark		
203-905	-0 01-21	19475108-36		
111-76-2	2 2-buto	oxyethanol		5 - 10
603-014		Tox. 4 H332 / Acute Tox. 4 H312 / / / Skin Irrit. 2 H315	Acute Tox. 4 H302 / Eye Irrit. 2	
		toxicity estimate (ATE): ATE (oral): 13 mg/kg bw	00 mg/kg bw / ATE (dermal):	
68154-9	-	HOLE, C10-C12, ETHOXYLATED, PRO rit. 2 H319	POXYLATED	1 - 5
215-181				
1310-58	-3 potas	sium hydroxide		1 - 5
019-002		Tox. 4 H302 / Skin Corr. 1A H314		
		fic concentration limit (SCL): Skin Corr. 314 >= 2 / Skin Irrit. 2 H315 >= 0.		
229-912	-9 01-21	19449811-37		
6834-92		um metasilicate		1 - 5
014-010		Corr. 1B H314 / STOT SE 3 H335 / M	et. Corr. 1 H290	
248-983		19489411-37		
28348-5		m cumenesulfanate		1 - 5
		rit. 2 H319		
248-827		19489427-24		
28085-6		sium cumenesulfonate		1 - 5
	Eye Ir	rit. 2 H319		

Additional information

Full text of H-phrases: see section 16.

# 4.1. Description of first aid measures

#### **General information**

**SECTION 4: First aid measures** 

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### **Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

- 4.2. **Most important symptoms and effects, both acute and delayed** In all cases of doubt, or when symptoms persist, seek medical advice.
- 4.3. **Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

# 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

# **SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures** Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

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

#### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

# 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

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

#### 8.1. Control parameters

# Occupational exposure limit values:

2-butoxyethanol Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2 WEL, TWA: 123 mg/m3; 25 ppm WEL, STEL: 246 mg/m3; 50 ppm Remark: (may be absorbed through the skin) BMGV, TWA: 240 mmol/mol creatinine Remark: Butoxyacetic acid; urine; end of exposure or end of shift potassium hydroxide Index No. 019-002-00-8 / EC No. 215-181-3 / CAS No. 1310-58-3

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# WEL, STEL: 2 mg/m3

#### Additional information

TWA : Long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### DNEL:

#### 2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 75 mg/kg bw/day

DNEL acute inhalative (local), Workers: 246 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 663 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 98 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 3,2 mg/kg bw/day

DNEL acute dermal, short-term (systemic), Consumer: 44,5 mg/kg

DNEL long-term dermal (systemic), Consumer: 38 mg/kg

DNEL acute inhalative (local), Consumer: 123 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 426 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 49 mg/m<sup>3</sup>

DNEL short-term oral (systemic): 13,4 mg/kg bw/day

### PNEC:

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/L

PNEC aquatic, marine water: 0,88 mg/L

PNEC aquatic, intermittent release: 9,1 mg/L

PNEC sediment, freshwater: 34,6 mg/kg dw

PNEC sediment, marine water: 3,46 mg/kg dw

PNEC, soil: 2,8 mg/kg dw

PNEC sewage treatment plant (STP): 463 mg/L

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

### Personal protection equipment

#### **Respiratory protection**

Not applicable.

#### Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,4 mm Breakthrough time: 30 min

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye/face protection

Wear closely fitting protective glasses in case of splashes.

#### Body protection

Wear suitable protective clothing and gloves.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

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

# 9.1. Information on basic physical and chemical properties

Physical state:

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	Colour:			refer to label	
	Odour: Odour threshold: Melting point/freezing point: Initial boiling point and boiling ra Flammability Lower and upper explosion limit: Lower explosion limit: Upper explosion limit:			characteristic	
				not applicable	
				not applicable	
			g range:	100 °C Source: PH EN 501166 GEF	BEZ@tr4000
				Combustible liquid.	
			mit:	<b>1.1 Vol-%</b> <b>10.6 Vol-%</b> Source: 2-butoxyethanol	
	Flash point	t:		not applicable Method: DIN 53213	
	Auto-ignition temperature: Decomposition temperature: pH at 20 °C:			240 °C Source: 2-butoxyethanol	
				not applicable	
				not applicable	
	Cinematic	viscosity (40°C):		< 20 mm²/s	
	Viscosity a Solubility(i			10 - 12 sec DIN 4 mm	
		ubility at 20 °C:		miscible	
	Partition co	pefficient: n-octano	ol/water:	see section 12	
	Vapour pre	essure at 20 °C:		23 mbar Source: PH EN 501166 GEF	BEZ@tr4000
	Density an Density at	d/or relative densit 20 °C:	y:	1.00 g/cm³	
	Relative va	pour density:		not applicable	
	particle ch	aracteristics:		not applicable	
9.2.	Other infor	mation			
	Solid conte	ent:		7 weight-%	
	solvent con Organic s Water:			8 weight-% 85 weight-%	
SEC	FION 10: S	tability and react	ivity		

#### 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

## 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

# 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

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

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

#### Acute toxicity

2-butoxyethanol oral, LD50, Rat: 1300 mg/kg Method: OECD 401 dermal, LD50, Rat: > 2000 mg/kg oral, LD50, Guinea pig: 1414 mg/kg Method: OECD 401 inhalative (vapours), LC0, Guinea pig, female: > 3,1 mg/L Method: (49 CFR 173.132) inhalative (vapours), LC0, Guinea pig, male: > 3,4 mg/L Method: (49 CFR 173.132) dermal, LD50, Rabbit, male: 1,06 mg/kg

# Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

2-butoxyethanol Skin, Rabbit (4 h) Method: Directive 67/548/EEC, Annex V, B.4. eyes, Rabbit (24 h) Method: OECD 405

### Respiratory or skin sensitisation

2-butoxyethanol Skin, Guinea pig: ; Evaluation not sensitising. Method: OECD 406 Maximization test

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-butoxyethanol

Germ cell mutagenicity; Evaluation In vitro tests showed no mutagenic effects.

Carcinogenicity; Evaluation Didn't show any carcinogenic effects in animal tests.

Reproductive toxicity; Evaluation Some effects on reproduction were observed in animals only at high doses where toxic effects on parents were induced.

teratogenicity; Evaluation Didn't show any effect on fetus development in animal studies.

#### STOT-single exposure; STOT-repeated exposure

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

#### Aspiration hazard

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

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### **Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

# 11.2. Information on other hazards

# Endocrine disrupting properties

No information available.

# **SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP] Do not allow to enter into surface water or drains.

:	Method: OECD 203 Daphnia toxicity, EC50, Da Method: OECD 202 Algae toxicity, ErC50, Pse Method: OECD 201	nynchus mykiss (Rainbow trout): 1474 r aphnia pulex (water flea): 1550 mg/L (4 udokirchneriella subcapitata: > 1 mg/L					
	Method: OECD 203 Daphnia toxicity, EC50, Da Method: OECD 202 Algae toxicity, ErC50, Pse Method: OECD 201	aphnia pulex (water flea): 1550 mg/L (					
	Daphnia toxicity, EC50, Da Method: OECD 202 Algae toxicity, ErC50, Pse Method: OECD 201		48 h)				
	Algae toxicity, ErC50, Pse Method: OECD 201	udokirchneriella subcanitata: > 1 mo/l	,				
	Method: OECD 201	udokirchneriella subcanitata: > 1 mo/l					
		adora on one oboapitata. > 1 mg/L	(72 h)				
		udokirchneriella subcapitata: 62,5 mg/L	(72 h)				
	•	eudomonas putida: 700 mg/L (16 h)					
	Method: DIN 38412	aphnia magna: 1,55 mg/L (48 h)					
	Method: OECD 202						
	Algae toxicity, EbC50, Des Method: OECD 201	Algae toxicity, EbC50, Desmodesmus subspicatus.: 623 mg/L (72 h)					
	Daphnia toxicity, EC50, Da Method: OECD 211	aphnia magna: 297 mg/L (21 d)					
		aphnia magna: 100 mg/L (21 d)					
	Method: OECD 211 Daphnia toxicity, growth test (Eb-Cx) 10%" , Daphnia magna: 134 mg/L (21 d) Method: OECD 211						
		(Eb-Cx) 10%" , Pseudokirchneriella sub	capitata: 308 mg/L (72 h)				
		(ErCx) 10%, Pseudokirchneriella subca	apitata: 679 mg/L (72 h)				
I	Long-term Ecotoxicity						
-	Toxicological data are not a	vailable.					
12.2. <b>I</b>	Persistence and degradat	bility					
2	Method: OECD 301B	ent (28 d); Evaluation Readily biodegra	adable (according to OECD criteria). cal value).; The criterion for the 10 day time window is				
12.3. <b>I</b>	Bioaccumulative potentia	I					
2	2-butoxyethanol Distribution coefficient n-o	ctanol/water (log KOW): 0.81 : Evalua	tion Bioaccumulation is not to be expected.				
I	Bioconcentration factor (B		P				
	Toxicological data are not a						
	Mobility in soil						
	2-butoxyethanol Water: Evaluation The s The product is water solub	ubstance does not evaporate from the v le. on at ground level not to be expected.	vater surface into the atmosphere.				
12.5. <b>I</b>	Results of PBT and vPvB	assessment					
-	The substances in the mixtu	ire do not meet the PBT/vPvB criteria a	ccording to REACH, annex XIII.				
	Endocrine disrupting prop No information available.	perties					
12.7. <b>(</b>	<b>Other adverse effects</b> No information available.						
	ION 13: Disposal consid						

#### 13.1. Waste treatment methods

### Appropriate disposal / Product

### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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	080111* *Hazardo Appropri Recomm	Waste us waste according ate disposal / Pac endation	des/waste designations in accordance e paint and varnish containing organic so to Directive 2008/98/EC (waste framework kage s may be recycled. Vessels not properly e	lvents or other dangerous substances ork directive).			
SEC	<b>TION 14</b> :	Transport inform	nation				
	ICAO/IAT	A).	sified as dangerous according to ir se of this transport regulation.	ternational transport regulations (ADR/RID, IMDG,			
14.1.	UN numb	er or ID number					
14.2.	UN prope	er shipping name	not applicable				
14.3.	Transpor	t hazard class(es)	not applicable				
14.4.	Packing	group	not applicable				
14.5.	Environn	nental hazards					
	Land tran	sport (ADR/RID)	not applicable				
	Marine po	ollutant	not applicable				
14.6.	Special p	recautions for us	er				
	Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8						
	Further i	nformation					
		striction code					
			-				
		sport (IMDG)					
447	EmS-No.	4	not applicable				
14.7.		•	according to IMO instruments				
	No transp	ort as bulk accordi	ng IBC - Code.				
SEC	TION 15:	Regulatory infor	mation				
15.1.	Safety, h	ealth and environr	mental regulations/legislation specific	for the substance or mixture			
	EU legisl	EU legislation					
		Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC-value (in g/L): 80					
	National	National regulations					
	Observe applicable Observe	э.	ctions under the Maternity Protection loyment for juveniles according to the 'j	Directive 92/85/EEC or stricter national regulations, if uvenile work protection guideline' (94/33/EC) or stricter			
15.2.	Chemica	Safety Assessme		ssessment has been carried out:			
	EC No.	-	nation	REACH No.			
	CAS No. 203-905-0		oxyethanol	01-2119475108-36			

203-905-0 111-76-2	2-butoxyethanol	01-2119475108-36
229-912-9 6834-92-0	disodium metasilicate	01-2119449811-37

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248-983-7 28348-53-		cumenesulfanate	01-2119489411	-37	
248-827-8 28085-69-	P	um cumenesulfonate	01-2119489427	-24	
SECTION 16: Other information					

#### Full text of classification in section 3 Acute Tox. 4 / H332 Acute toxicity (inhalative) Harmful if inhaled. Acute Tox. 4 / H312 Acute toxicity (dermal) Harmful in contact with skin. Acute Tox. 4 / H302 Acute toxicity (oral) Harmful if swallowed. Eve Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation. Skin Irrit. 2 / H315 Skin corrosion/irritation Causes skin irritation. Skin Corr. 1A / H314 Skin corrosion/irritation Causes severe skin burns and eve damage. Skin Corr. 1B / H314 Skin corrosion/irritation Causes severe skin burns and eye damage. STOT SE 3 / H335 STOT-single exposure May cause respiratory irritation. Corrosive to metals Met. Corr. 1 / H290 May be corrosive to metals.

# **Classification procedure**

Classification for mixtur	res and used evaluation method according to reg	gulation (EC) No 1272/2008 [CLP]
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Abbreviations and ac	ronyms	
		al Camiana of Demonstration Canada has De

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
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 for the Safe Transport of Dangerous
	Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

### Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.