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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name :	DisboROOF 412 Schiefer
1 2 Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	Water-borne coatings
Recommended restrictions : on use	within adequate application - none
	data sheet Disbon GmbH Roßdörfer Straße 50 64372 Ober-Ramstadt +496154710
Telefax :	+4961547170222 msds@dr-rmi.com
1.4 Emergency telephone	
Emergency telephone 1 :	+49613284463 GBK GmbH
SECTION 2: Hazards identification	on
2.4 Classification of the substance	
2.1 Classification of the substance of	
Classification (REGULATION (E Long-term (chronic) aquatic hazar egory 3	
2.2 Label elements	
Labeling (REGULATION (EC) No	o 1272/2008)
Hazard Statements :	H412 Harmful to aquatic life with long lasting effects.
,	Prevention: P273 Avoid release to the environment.
Additional Labeling	

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not



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breathe spray or mist.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2Hisothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

nponents			-
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
titanium dioxide	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	>= 1 - < 10
pyrithione zinc	13463-41-7 236-671-3 01-2119511196-46	Acute Tox. 3; H301 Acute Tox. 2; H330 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10	>= 0,1 - < 0,25
terbutryn	886-50-0 212-950-5	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	>= 0,025 - < 0,1



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			specific concentration limit Skin Sens. 1; H317 >= 3 %	
1,2-b	enzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-212076154	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Acute Tox. 2; H330 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0,05 %	>= 0,025 - < 0,05
meth	ion mass of 5-chloro-2- yl-2H-isothiazol-3-one and yl-2H-isothiazol-3-one (3:1		Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 1-48 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 Specific concentration limit Skin Corr. 1C; H314	>= 0,0002 - < 0,0015



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			>= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Move out of dangerous area. First aider needs to protect himself.
If inhaled	:	Move to fresh air.
In case of skin contact	:	Take off all contaminated clothing immediately. Do NOT use solvents or thinners. In case of contact, immediately flush skin with soap and plenty of water.
In case of eye contact	:	If eye irritation persists: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed	:	Seek medical advice. Clean mouth with water and drink afterwards plenty of water. If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.



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SEC	SECTION 5: Firefighting measures				
5.1	Extingu	ishing media			
		:	bon dioxide. Use extinguishing	alcohol-resistant foam, dry chemical or car- measures that are appropriate to local cir- the surrounding environment.	
	Unsuitable extinguishing media		:	None known.	
5.2	Special	hazards arising from	the	e substance or mi	xture
	Specific hazards during fire : fighting		:	produced such as	ardous decomposition products may be :: a, carbon dioxide and unburned hydrocar-
5.3	Advice	for firefighters			
	•	l protective equipment fighters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-
	Further	information	:		o cool unopened containers. Ire for chemical fires. does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures			
Personal precautions :	Use protective shoes or boots with rough rubber sole. Material can create slippery conditions. Do not get in eyes, on skin, or on clothing.		
6.2 Environmental precautions			
Environmental precautions :	Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into surface water or sanitary sewer system.		
6.3 Methods and material for conta	inment and cleaning up		

Methods for cleaning up	: Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel,
	acid binder, universal binder, sawdust).



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6.4 Reference to other sections

For further information see Section 7 of the safety data sheet. ,For personal protection see section 8.,For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Use only with adequate ventilation. For personal protection see section 8. No special technical protective measures required.
		In addition, the current technical information for this product and its application on www.caparol.com must be observed.
Hygiene measures	:	Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product.
Conditions for safe storage,	inc	luding any incompatibilities Perisbable if frozen. To maintain product quality, do not store

7.2

Requirements for storage areas and containers	:	Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight. Store at room temperature in the original container. Containers which are opened must be care- fully resealed and kept upright to prevent leakage.
Advice on common storage	:	Keep away from oxidizing agents and strongly acid or alkaline materials.
Further information on stor- age stability	:	No interior use.
Creatia and waa(a)		

7.3 Specific end use(s)

Specific use(s)	:	This information is not available.
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:



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Subst	tance name	End Use	Routes of expo- sure	Potential health ef- Value fects			
titaniu	um dioxide	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day		
	Workers		Inhalation	Long-term local ef- fects	10,00 mg/m3		
pyrith	ione zinc	Workers	Skin contact	Long-term systemic effects	0,01 mg/kg bw/day		

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
titanium dioxide	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l
	Soil	100 mg/kg dry
		weight (d.w.)
	Sea water	0,0184 mg/l
	Fresh water sediment	1000 mg/kg dry
		weight (d.w.)
	Sea sediment	100 mg/kg dry
		weight (d.w.)
	Intermittent use/release	0,193 mg/l
pyrithione zinc	Sea sediment	0,0095 mg/kg dry
		weight (d.w.)
	Fresh water sediment	0,0095 mg/kg dry
		weight (d.w.)
	Soil	1,02 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	0,01 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection	:	Goggles
Hand protection		
Material	:	Nitrile rubber
Glove thickness	:	0,2 mm
Protective index	:	Class 3
Remarks	:	Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.
Skin and body protection	:	Safety shoes Long sleeved clothing
		Choose body protection according to the amount and con- centration of the dangerous substance at the work place.
		Skin should be washed after contact.



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		During	During spray application: impervious clothing				
Respiratory protection		: No pers quired.	sonal respiratory protective equipment normally re-				
			During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Physical state : liquid Color No data available 5 Odor ÷ No data available Odor Threshold : Not relevant Melting point/freezing point : not determined Boiling point/boiling range not determined 1 Upper explosion limit / Upper : not determined flammability limit Lower explosion limit / Lower : not determined flammability limit Flash point Not applicable 2 Autoignition temperature ÷ not determined Decomposition temperature Not applicable 2 pН 8 - 9 2 Concentration: 100 % Viscosity No data available Viscosity, dynamic : Solubility(ies) Water solubility completely miscible 5 Partition coefficient: n-: not determined octanol/water



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	Vapor	pressure	:	not determined	
	Relativ	e density	:	not determined	
	Densit	у	:	1,5000 g/cm3	
	Relativ	ve vapor density	:	not determined	
9.2	Other in	nformation			
	Explos	ives	:	Not applicable	
	Oxidizi	ing properties	:	Not applicable	
	Flamm	ability (liquids)	:	The product is n	ot flammable.
	Evapo	ration rate	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
10.4 Conditions to avoid Conditions to avoid	:	Protect from frost, heat and sunlight.
10.5 Incompatible materials Materials to avoid	:	Incompatible with acids and bases. Incompatible with oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Product:



DisboROOF 412 Schiefer Version Revision Date: Print Date Date of last issue: 10.03.2021 2.1 14.09.2021 23.09.2021 Date of first issue: 10.12.2019 Remarks: Based on available data, the classification criteria Acute oral toxicity : are not met. Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method Acute inhalation toxicity Remarks: Based on available data, the classification criteria 1 are not met. Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Acute dermal toxicity Remarks: Based on available data, the classification criteria are not met. **Components:** pyrithione zinc: Acute oral toxicity LD50 (Rat): 200 mg/kg 5 Method: OECD Test Guideline 401 Acute inhalation toxicity LC50: 0,5 mg/l : Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity LD50 (Rat): > 2.000 mg/kg : terbutryn: Acute oral toxicity : LD50 Oral (Rat): > 300 mg/kg LD50 Dermal (Rat): > 2.000 mg/kg Acute dermal toxicity : 1,2-benzisothiazol-3(2H)-one: Acute oral toxicity LD50 (Rat): 532 mg/kg : Acute inhalation toxicity LC50 (Rat): 0,4 mg/l : Exposure time: 4 h Test atmosphere: dust/mist Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1): Acute oral toxicity LD50 (Rat): 66 mg/kg 1 Method: OECD Test Guideline 401



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ersion .1	Revision Date: 14.09.2021	Print Date 23.09.2021	Date of last issue: 10.03.2021 Date of first issue: 10.12.2019		
Acute	inhalation toxicity				
Acute	dermal toxicity	: LD50 (Rat)	LD50 (Rat): > 141 mg/kg Method: OECD Test Guideline 402		
Skin	corrosion/irritation				
	<u>Product:</u> Remarks		According to the classification criteria of the European Union, the product is not considered as being a skin irritant.		
Serio	us eye damage/eye	irritation			
<u>Produ</u> Rema			to the classification criteria of the European Union, is not considered as being an eye irritant.		
<u>Comp</u>	oonents:				
	nione zinc: ssment	: Risk of seri	ous damage to eyes.		
Resp	iratory or skin sensi	tization			
<u>Produ</u>	uct:				
Rema	arks	: Repeated of ceptible per	contact may cause allergic reactions in very sus- rsons.		
1.2 Infor					

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available



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	Comp	onents:						
	pyrithi	one zinc:						
	M-Factor (Acute aquatic tox- icity)		:	100				
	M-Fact toxicity	or (Chronic aquatic)	:	10				
	terbuti	ryn:						
	M-Fact icity)	or (Acute aquatic tox-	:	10				
	M-Fact toxicity	or (Chronic aquatic)	:	10				
	1,2-be	nzisothiazol-3(2H)-on	e:					
	Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants		:	Exposure time: 9	chus mykiss (rainbow trout)): 2,2 mg/l 6 h est Guideline 203			
			:	Exposure time: 4				
			:	Exposure time: 7	um capricornutum (green algae)): 0,11 mg/l 2 h est Guideline 201			
	M-Fact icity)	or (Acute aquatic tox-	:	1				
	M-Fact toxicity	or (Chronic aquatic)	:	1				
	reaction mass of 5-chloro-2-m (3:1):		-me	ethyl-2H-isothiazo	I-3-one and 2-methyI-2H-isothiazol-3-one			
	M-Fact icity)	or (Acute aquatic tox-	:	100				
	M-Fact toxicity	or (Chronic aquatic)	:	100				
12.2		tence and degradabil a available	lity					



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12.3 Bioa	ccumulative potential				
Com	ponents:				
terbu	itryn:				
	Partition coefficient: n- octanol/water		: log Pow: 3,66		
react (3:1):		2-me	ethyl-2H-isothia	zol-3-one and 2-methyl-2H-isothiazol-3-one	
Partition coefficient: n- octanol/water		:	log Pow: <= 0,71 Method: OECD Test Guideline 117		
	i lity in soil ata available				
	llts of PBT and vPvB a	asse	ssment		
<u>Product:</u> Assessment		:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
	ocrine disrupting prop ata available	ertie	S		
12.7 Othe	r adverse effects				
Prod	uct:				
Additi matio	ional ecological infor- n	:		atic organisms, may cause long-term adverse quatic environment.	
SECTION	N 13: Disposal cons	idera	ations		
13 1 Wast	e treatment methods				
Produ		:	safe way in acc	Il related packaging must be disposed of in a cordance with the full requirements of the local, nal and international authorities.	
			Waste should r	ot be disposed of via wastewater.	
Conta	aminated packaging	:	Only completel	y emptied containers should be given for recy-	

cling.



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in 08 01 11*					
SECTION 14: Transport information					
14.1 UN n	umber or ID numbe	r			
Not re	egulated as a danger	ous good			
44.0 LINL		-			

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks

Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

1

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).

- : Conditions of restriction for the following entries should be considered: Number on list 3
- : Conditions of restriction for the following entries should be considered: Number on list 3
- : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Volatile organic compounds : < 1 % < 10 g/l

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H351	:	Suspected of causing cancer if inhaled.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
EUH071	:	Corrosive to the respiratory tract.
Full text of other abbreviation	ons	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Carc.	:	Carcinogenicity
Eye Dam.		
		Serious eye damage
Skin Corr.	:	Serious eye damage Skin corrosion
Skin Corr. Skin Irrit.	:	
		Skin corrosion
Skin Irrit.	:	Skin corrosion Skin irritation
Skin Irrit. Skin Sens.	:	Skin corrosion Skin irritation Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Com-



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munity number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Covil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Covention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; IQOS6 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulation (EC) No 1907/2006 of the European Parliament and of the Council Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rub for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Material Safety Data Sheet:

ECHA WebSite

ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)

Toxnet - Toxicology Data Network

Classification of the mixture:

Classification procedure:

Aquatic Chronic 3 H412

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

GB / EN