

Safety Data Sheet

PPF & Film Application Fluid - Konzentrat

Revision: 04.04.2026

Product code: SF10503

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

PPF & Film Application Fluid - Konzentrat

Further trade names

SF10503.1

UFI:

YCN2-QQSM-6H9J-P23A

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Lubricants, greases, release products

1.3. Details of the supplier of the safety data sheet

Company name:	ServFaces GmbH	
Street:	Zeppelinstraße 2-4	
Place:	D-72488 Sigmaringen	
Telephone:	+49 7571 6894 0	
E-mail:	info@servfaces.de	
Contact person:	Jörg Reents	Telephone: +49 7571 6894 0
E-mail:	info@servfaces.de	
Internet:	www.servfaces.de	
Responsible Department:	Giftinformationszentrum Mainz / 24h Deutsch & Englisch	

1.4. Emergency telephone number:

+49 6131 / 19240 (24h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H319	Causes serious eye irritation.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing and eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

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2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			2 - 10 %
	500-234-8		01-2119488639-16	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts			2 - 10 %
	307-055-2		01-2119489924-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			< 0.036 %
	220-120-9	613-088-00-6		
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H302 H315 H318 H317 H400 H410			
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyrithione sodium; sodium pyrithione			< 0.01 %
	223-296-5	613-344-00-7		
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 2; H331 H311 H302 H315 H319 H317 H372 H400 H411 EUH070			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
68891-38-3	500-234-8	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	2 - 10 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4100 mg/kg	
97489-15-1	307-055-2	Sulfonic acids, C14-17-sec-alkane, sodium salts	2 - 10 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 500 - 2000 mg/kg Skin Irrit. 2; H315: >= 10 - 100 Eye Dam. 1; H318: >= 15,00001 - 100 Eye Irrit. 2; H319: >= 10 - < 15,00001	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0.036 %
		inhalation: ATE 0,21 mg/l (dusts or mists); oral: ATE 450 mg/kg Skin Sens. 1A; H317: >= 0,036 - 100 Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	
3811-73-2	223-296-5	pyridine-2-thiol 1-oxide, sodium salt; pyrithione sodium; sodium pyrithione	< 0.01 %
		inhalation: ATE 0,5 mg/l (dusts or mists); dermal: ATE 790 mg/kg; oral: ATE 500 mg/kg Aquatic Acute 1; H400: M=100	

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection!

When in doubt or if symptoms are observed, get medical advice.

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After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). When in doubt or if symptoms are observed, get medical advice.

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

Causes eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: Pyrolysis products, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Personal protection equipment: see section 8

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Cover drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Other information

Clean contaminated articles and floor according to the environmental legislation.

Special danger of slipping by leaking/spilling product.

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6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Take off contaminated clothing. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against: Heat, Frost.

7.3. Specific end use(s)

Lubricants, greases, release products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
57-55-6	Propane-1,2-diol, total vapour and particulates	150	474		TWA (8 h)	WEL

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
Worker DNEL, long-term	dermal	systemic	2750 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	175 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1650 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	52 mg/m ³
Consumer DNEL, long-term	oral	systemic	15 mg/kg bw/day
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts		
Worker DNEL, acute	dermal	local	2,8 mg/cm ²
Worker DNEL, long-term	dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	35 mg/m ³
Worker DNEL, long-term	dermal	local	2,8 mg/cm ²
Consumer DNEL, acute	dermal	local	2,8 mg/cm ²
Consumer DNEL, long-term	dermal	systemic	3,57 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	12,4 mg/m ³
Consumer DNEL, long-term	oral	systemic	7,1 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	2,8 mg/cm ²

PNEC values

CAS No	Substance	
Environmental compartment	Value	
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
Freshwater	0,129 mg/l	
Marine water	0,013 mg/l	
Freshwater sediment	4,835 mg/kg	
Marine sediment	0,483 mg/kg	
Microorganisms in sewage treatment plants (STP)	10000 mg/l	
Soil	7,5 mg/kg	
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	
Freshwater	0,04 mg/l	
Freshwater (intermittent releases)	0,06 mg/l	
Marine water	0,004 mg/l	
Freshwater sediment	9,4 mg/kg	
Marine sediment	0,94 mg/kg	
Secondary poisoning	53,3 mg/kg	
Microorganisms in sewage treatment plants (STP)	600 mg/l	
Soil	9,4 mg/kg	

8.2. Exposure controls

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**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye protection/face protection. EN ISO 16321 (EN 166)

Hand protection

Wear suitable gloves. (EN ISO 374)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

Respiratory protection necessary at: insufficient ventilation, aerosol or mist formation, exceeding exposure limit values

Thermal hazards

No information available.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	clear, transparent	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		Non-flammable.
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		> 61 °C
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		8,5 - 9,0
Viscosity / kinematic: (at 40 °C)		not determined
Water solubility:		miscible
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density:		1,025 g/cm ³

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Relative vapour density:

not determined

Particle characteristics:

not applicable

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Protect against: Heat, Frost.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic

SECTION 11: Toxicological information**11.1. Information on hazard classes****Acute toxicity**

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts				
	oral	LD50 4100 mg/kg	Rat	Manufacturer	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	Manufacturer	OECD 402
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts				
	oral	LD50 > 500 - 2000 mg/kg	Rat	Manufacturer	OECD 401
	dermal	LD50 > 2000 mg/kg	Mouse	Manufacturer	
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 450 mg/kg			
	inhalation dust/mist	ATE 0,21 mg/l			
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyriithione sodium; sodium pyriithione				
	oral	ATE 500 mg/kg			
	dermal	ATE 790 mg/kg			
	inhalation dust/mist	ATE 0,5 mg/l			

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Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure

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

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.

Information on likely routes of exposure

oral, Skin contact, Eye contact.

aerosol or mist formation: Inhalation

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

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

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts					
	Acute fish toxicity	LC50	7,1 mg/l	96 h	Piscis	Manufacturer ISO 7346
	Acute algae toxicity	ErC50	7,5 mg/l	96 h	Algae	Manufacturer
	Acute crustacea toxicity	EC50	7,4 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer OECD 202
	Fish toxicity	NOEC mg/l	0,18	28 d	Pimephales promelas (fathead minnow)	Manufacturer OECD 210
	Algae toxicity	NOEC mg/l	0,95	3 d	Algae	Manufacturer OECD 201
	Crustacea toxicity	NOEC mg/l	0,27	21 d	Daphnia	Manufacturer OECD 211
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts					
	Acute fish toxicity	LC50 mg/l	> 1 - 10	96 h	Danio rerio (zebrafish)	Manufacturer OECD 203
	Acute algae toxicity	ErC50 mg/l	> 61	72 h	Scenedesmus subspicatus	Manufacturer OECD 201
	Acute crustacea toxicity	EC50 mg/l	9,81	48 h	Daphnia magna (Big water flea)	Manufacturer OECD 202
	Fish toxicity	NOEC mg/l	0,85 - 2	28 d	Piscis	Manufacturer
	Crustacea toxicity	NOEC mg/l	0,36 - 1	22 d	Crustacea	Manufacturer
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyriithione sodium; sodium pyriithione					
	Acute fish toxicity	LC50 mg/l	0,0066	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer
	Acute algae toxicity	ErC50 mg/l	0,46	72 h	Algae	Manufacturer
	Acute crustacea toxicity	EC50	0,6 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer
	Acute bacteria toxicity	EC50 mg/l ()	1,81	3 h	Toxicity to microorganisms	Manufacturer

12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	OECD 301E	> 95 %	28	Manufacturer
	Readily biodegradable (according to OECD criteria).				
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	OECD 301E	89 %	28	Manufacturer
	Readily biodegradable (according to OECD criteria).				
		OECD 301B	78 %	28	Manufacturer
	Readily biodegradable (according to OECD criteria).				
		OECD 303A	96,2 %	34	Manufacturer
	Readily biodegradable (according to OECD criteria).				
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyrithione sodium; sodium pyrithione	Formation of: Carbon dioxide (CO ₂)	2%	8	Manufacturer
	Not readily biodegradable (according to OECD criteria)				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	0,3
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	0,2
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	1,3
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyrithione sodium; sodium pyrithione	-2,38

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

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<u>14.1. UN number or ID number:</u>	No dangerous good in sense of these transport regulations.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of these transport regulations.
<u>14.4. Packing group:</u>	No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of these transport regulations.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of these transport regulations.
<u>14.4. Packing group:</u>	No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions: < 15 %

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Abbreviations and acronyms

Acute Tox. 2: Acute toxicity, hazard category 2
 Acute Tox. 3: Acute toxicity, hazard category 3
 Acute Tox. 4: Acute toxicity, hazard category 4
 Skin Irrit. 2: Skin irritation, hazard category 2
 Eye Dam. 1: Serious eye damage, hazard category 1
 Eye Irrit. 2: Eye irritation, hazard category 2
 Skin Sens. 1: Skin sensitisation, hazard category 1
 Skin Sens. 1A: Skin sensitisation, hazard category 1A
 STOT RE 1: Specific target organ toxicity - repeated exposure, hazard category 1
 Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2
 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard category: Chronic 3
 CAS: Chemical Abstracts Service
 CLP: Classification, Labelling and Packaging
 EU: European Union
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
 REACH: Registration, Evaluation and Authorization of Chemicals
 UN: United Nations
 PBT: Persistent, Bioaccumulative, Toxic
 SVHC: Substance of Very High Concern
 vPvB: very Persistent, very Bioaccumulative
 ATE: Acute Toxicity Estimates
 BCF: Bio-Concentration Factor
 DMEL: Derived Minimal Effect Level
 DNEL: Derived No Effect Level
 PNEC: Predicted No Effect Concentration
 VOC: Volatile Organic Compounds
 DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization)
 EN: European Standard
 ISO: International Organization for Standardization
 IUCLID: International Uniform Chemical Information Database
 LC50: Lethal Concentration, 50 %
 LD50: Lethal Dose, 50 %
 LL50: Lethal Loading, 50 %
 OECD: Organisation for Economic Co-operation and Development
 EC50: Effective Concentration 50 %
 M-Faktor: Multiplication Factor
 EL50: Effect Loading, 50 %
 ErC50: Effective Concentration 50 %, growth rate
 M-Faktor: Multiplication Factor
 NOEC: No Observed Effect Concentration
 ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
 ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 DGR: Dangerous Goods Regulations
 EmS: Emergency Schedules
 IATA: International Air Transport Association
 IBC: Intermediate Bulk Container
 ICAO: International Civil Aviation Organization
 IE: Industrial Emissions
 IMDG: International Maritime Code for Dangerous Goods
 LQ: Limited Quantity

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MARPOL: International Convention for the Prevention of Marine Pollution from Ships

MFAG: Medical First Aid Guide

RID: Regulations concerning the International carriage of Dangerous goods by rail

TI: Technical Instructions

Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

Classification for mixtures and used evaluation method

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH070	Toxic by eye contact.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)