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

1.1. Product identifier

SIMALFA 3031

UFI: QR7C-3HMG-8100-URWY

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

Use of the substance/mixture

Adhesives.
Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name:	ALFA Klebstoffe AG	
Street:	Vor Eiche 10	
Place:	CH-8197 Rafz	
Telephone:	+41 43 433 30 30	Telefax: +41 43 433 30 33
E-mail:	msds@alfa.swiss	
Internet:	www.alfa.swiss	

Supplier

Company name:	ALFA Klebstoffe AG	
Street:	Vor Eiche 10	
Place:	CH-8197 Rafz	
Telephone:	+41 43 433 30 30	Telefax: +41 43 433 30 33
E-mail:	msds@alfa.swiss	
Internet:	www.alfa.swiss	

1.4. Emergency telephone number:

+41 43 433 30 30 (Only available during office hours. Monday-Thursday: 07:15-12:00 / 13:00-17:00, Friday: 07:15-12:00 / 13:00-16:00 (swiss local time))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Poly-2-chlorobutadiene (1,3) dispersion

Signal word: Warning

Pictograms:

Hazard statements

H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.

Precautionary statements

P260	Do not breathe dust/mist/Aerosol.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

Special labelling of certain mixtures

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

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

Chemical characterization

Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
-	Poly-2-chlorobutadiene (1,3) dispersion			60 - < 80 %
	-			
	STOT RE 2; H373			
61790-51-0	Resin acids and Rosin acids, sodium salts			1 - < 5 %
	263-144-5		01-2119486963-21	
	Eye Irrit. 2; H319			
61790-50-9	Resin acids and Rosin acids, potassium salts			1 - < 5 %
	263-142-4		01-2119486885-17	
	Eye Irrit. 2; H319			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			< 0.05 %
	220-120-9	613-088-00-6	01-2120761540-60	
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H330 H302 H315 H318 H317 H400 H410			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			< 0.0015 %
	-	613-167-00-5	01-2120764691-48	
	Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071			

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		
-	-	Poly-2-chlorobutadiene (1,3) dispersion	60 - < 80 %
	inhalation: LC50 = > 5267 mg/l (dusts or mists); oral: LD50 = > 5000 mg/kg		
61790-51-0	263-144-5	Resin acids and Rosin acids, sodium salts	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
61790-50-9	263-142-4	Resin acids and Rosin acids, potassium salts	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0.05 %
	inhalation: ATE = 0.5 mg/l (vapours); inhalation: ATE = 0.05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 670 mg/kg Skin Sens. 1; H317: >= 0.05 - 100		
55965-84-9	-	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	< 0.0015 %
	inhalation: ATE = 0.5 mg/l (vapours); inhalation: ATE = 0.05 mg/l (dusts or mists); dermal: LD50 = 660 mg/kg; oral: LD50 = 457 mg/kg Skin Corr. 1C; H314: >= 0.6 - 100 Skin Irrit. 2; H315: >= 0.06 - < 0.6 Eye Dam. 1; H318: >= 0.6 - 100 Eye Irrit. 2; H319: >= 0.06 - < 0.6 Skin Sens. 1A; H317: >= 0.0015 - 100 Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=100		

Further Information

Poly-2-chlorobutadiene (1,3) dispersion; 60 - < 80%:

- Mixtures.
- Contains: Polymer preparations and compounds, Water.
- CAS No., REACH No.: not applicable.
- Classification procedure (STOT RE 2, H373): On basis of test data. (Data sources: Supplier)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

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

After contact with eyes

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. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Never give anything by mouth to an unconscious person or a person with cramps. Call a doctor if you feel unwell.

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

No known symptoms to date.

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

Water spray. Foam. Dry extinguishing powder.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Strong water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.
In case of fire and/or explosion do not breathe fumes.
In case of fire may be liberated: Pyrolysis products, toxic

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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. Evacuate area.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Clean contaminated articles and floor according to the environmental legislation.

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

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed.

Hints on joint storage

No information available.

Further information on storage conditions

Protect against: Frost, Heat, UV-radiation/sunlight.

7.3. Specific end use(s)

Adhesives.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
-	Poly-2-chlorobutadiene (1,3) dispersion			
Worker DNEL, long-term		inhalation		0.4 mg/m³
61790-51-0	Resin acids and Rosin acids, sodium salts			
Worker DNEL, long-term		inhalation	local	10 mg/m³
Worker DNEL, long-term		dermal	systemic	2,131 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,065 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,065 mg/kg bw/day
61790-50-9	Resin acids and Rosin acids, potassium salts			
Worker DNEL, long-term		inhalation	local	10 mg/m³
Worker DNEL, long-term		dermal	systemic	2,131 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,065 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,065 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			
Worker DNEL, long-term		inhalation	systemic	6.81 mg/m³
Worker DNEL, long-term		dermal	systemic	0.966 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1.2 mg/m³
Consumer DNEL, long-term		dermal	systemic	0.345 mg/kg bw/day
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Worker DNEL, long-term		inhalation	local	0.02 mg/m³
Worker DNEL, acute		inhalation	local	0.04 mg/m³
Consumer DNEL, long-term		inhalation	local	0.02 mg/m³
Consumer DNEL, acute		inhalation	local	0.04 mg/m³
Consumer DNEL, long-term		oral	systemic	0.09 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0.11 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
61790-51-0	Resin acids and Rosin acids, sodium salts	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,016 mg/l
Marine water		0 mg/l
Freshwater sediment		0,007 mg/kg
Marine sediment		0,001 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		0 mg/kg
61790-50-9	Resin acids and Rosin acids, potassium salts	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,016 mg/l
Marine water		0 mg/l
Freshwater sediment		0,007 mg/kg
Marine sediment		0,001 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		0 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	
Freshwater		0.00403 mg/l
Freshwater (intermittent releases)		0.0011 mg/l
Marine water		0.000403 mg/l
Freshwater sediment		0.0499 mg/kg
Marine sediment		0.00499 mg/kg
Micro-organisms in sewage treatment plants (STP)		1.03 mg/l
Soil		3 mg/kg
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Freshwater		0.00339 mg/l
Freshwater (intermittent releases)		0.00339 mg/l
Marine water		0.00339 mg/l
Freshwater sediment		0.027 mg/kg
Marine sediment		0.027 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.23 mg/l
Soil		0.01 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

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

Suitable safety glasses, (EN 166)

Hand protection

Suitable protective 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 protective gloves/protective clothing.
Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

Respiratory protection

Avoid breathing dust/fume/gas/mist/vapours/spray.
In case of inadequate ventilation wear respiratory protection.
Respiratory protection necessary at: exceeding exposure limit values, Inhalation of vapours or spray/mists

In fine dispersion/spraying/misting: Provide adequate ventilation. Work in well-ventilated zones or use proper respiratory protection. Filtering Half-face mask (EN 149): FFP2 / Particle filter device (EN 143): P2.
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Thermal hazards

No information available.
Avoid: Thermal decomposition, extreme temperatures, Vapour

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	white, red, yellow, blue
Odour:	characteristic
Odour threshold:	not determined

		Test method
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	> 100 °C	
Flammability:	Non-flammable.	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not determined	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value (at 23 °C):	8.0 - 9.0	
Viscosity / kinematic:	not determined	
Water solubility:	miscible.	
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:	not determined	

Vapour pressure:	not determined	
Density (at 20 °C):	approx. 1.08 g/cm³	
Particle characteristics:	not applicable	

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid:	not applicable	
Gas:	not applicable	

Other safety characteristics

Solid content:	approx. 41%	
Viscosity / dynamic: (at 23 °C)	900 - 1600 mPa·s	Brookfield RV, Sp. 2, 20 rpm

Further 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 hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: Frost, Heat, UV-radiation/sunlight.

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 as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 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
-	Poly-2-chlorobutadiene (1,3) dispersion				
	oral	LD50 > 5000 mg/kg	rat, male	Supplier	
	inhalation (4 h) dust/mist	LC50 > 5267 mg/l	Rat	Supplier	OECD 403
61790-51-0	Resin acids and Rosin acids, sodium salts				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 402
61790-50-9	Resin acids and Rosin acids, potassium salts				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 402
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	LD50 670 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1994)	OECD Guideline 402
	inhalation vapour	ATE 0.5 mg/l			
	inhalation dust/mist	ATE 0.05 mg/l			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
	oral	LD50 457 mg/kg	Rat	Study report (1993)	- Principle of test: The test material w
	dermal	LD50 660 mg/kg	Rabbit	Study report (1993)	- Principle of test: The undiluted test
	inhalation vapour	ATE 0.5 mg/l			
	inhalation dust/mist	ATE 0.05 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.
Frequently or prolonged contact with skin may cause dermal irritation.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 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

May cause damage to organs through prolonged or repeated exposure. (Poly-2-chlorobutadiene (1,3) dispersion)
The product has not been tested. Ingredient: Poly-2-chlorobutadiene (1,3) dispersion. Specific target organ toxicity (repeated exposure), Category 2 (inhalative) On basis of test data (Source: Supplier).

Aspiration hazard

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

Information on likely routes of exposure

oral, Skin contact, Eye contact, 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. (Mass fraction (wt %) >0.1)
The product has not been tested.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.
Product may not be released into water without pre-treatment (biological sewage plant).

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
-	Poly-2-chlorobutadiene (1,3) dispersion					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio (zebrafish)	Supplier	
	Acute bacteria toxicity	EC50 > 10000 mg/l ( )		Activated sludge	Supplier	OECD 209
61790-51-0	Resin acids and Rosin acids, sodium salts					
	Acute fish toxicity	LC50 5.4 mg/l	96 h	Danio rerio	Study report (2004)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EL50 > 100 mg/l	48 h	Daphnia magna	Study report (2010)	OECD Guideline 202
	Acute bacteria toxicity	EC50 > 10000 mg/l ( )	3 h	activated sludge of a predominantly domestic sewag	Study report (1997)	OECD Guideline 209
61790-50-9	Resin acids and Rosin acids, potassium salts					
	Acute fish toxicity	LC50 5.4 mg/l	96 h	Danio rerio	Study report (2004)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EL50 > 2000 mg/l	48 h	Daphnia magna	Study report (1993)	OECD Guideline 202
	Acute bacteria toxicity	EC50 > 10000 mg/l ( )	3 h	activated sludge of a predominantly domestic sewag	Study report (1997)	OECD Guideline 209
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one					
	Acute fish toxicity	LC50 ca. 16.7 mg/l	96 h	Cyprinodon variegatus	REACh Registration Dossier	other:
	Acute algae toxicity	ErC50 0.15 mg/l	72 h	Raphidocelis subcapitata	Study report (1994)	OECD Guideline 201
	Acute crustacea toxicity	EC50 2.94 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
	Acute bacteria toxicity	EC50 13 mg/l ( )	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)					
	Acute fish toxicity	LC50 0.19 mg/l	96 h	Oncorhynchus mykiss	REACh Registration Dossier	EPA OPP 72-1
	Acute algae toxicity	ErC50 0.0063 mg/l	72 h	Skeletonema costatum	Study report (1995)	OECD Guideline 201
	Acute crustacea toxicity	EC50 0.18 mg/l	48 h	Daphnia magna	REACh Registration Dossier	EPA OPP 72-2

	Fish toxicity	NOEC >= 0.0464 mg/l	35 d	Danio rerio	REACh Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 0.1 mg/l	21 d	Daphnia magna	Study report (1991)	EPA OPP 72-4
	Acute bacteria toxicity	EC50 4.5 mg/l ( )	3 h	activated sludge of a predominantly domestic sewag	Study report (1995)	OECD Guideline 209

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
61790-51-0	Resin acids and Rosin acids, sodium salts	0.9 - 6.6
61790-50-9	Resin acids and Rosin acids, potassium salts	5.046
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	0.63
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0.326

BCF

CAS No	Chemical name	BCF	Species	Source
61790-51-0	Resin acids and Rosin acids, sodium salts	140	Hyridella menziesi	Environmental toxico
61790-50-9	Resin acids and Rosin acids, potassium salts	< 25	Oncorhynchus mykiss	Environmental Toxico
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	ca. 6.62	Lepomis macrochirus	REACh Registration D
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	ca. 54	Lepomis macrochirus	Study report (1996)

12.4. Mobility in soil

No information available.

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.

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.
(Mass fraction (wt %) >0.1) The product has not been tested.

12.7. Other adverse effects

No information available.

Further information

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.
Observe regulations concerning local drainage.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

List of Wastes Code - residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	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

Other applicable information

No dangerous good in sense of these transport regulations.
Protect against: Frost

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

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

National regulatory information

Additional information

No information available.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
STOT RE 2; H373	Calculation method

Relevant H and EUH statements (number and full text)

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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H373	May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2 -methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 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.)