Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

amended by 2020/878/EU

A1 LP01 Liquid

Version number: 4.0
Replaces version of: 24.05.2023 (3)

Revision: 04.06.2025

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

1.1 Product identifier

Trade name

A1 LP01 Liquid
A1 LP07 Extra White Liquid
A1 IMO Liquid

Registration number (REACH)

not relevant (mixture)

Unique formula identifier (UFI)

N200-U0CW-600J-QXJW

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

Relevant identified uses

Professional use
Consumer uses
A1 Liquid/Powder system

1.3 Details of the supplier of the safety data sheet

Active Composite Technologies
Nijverheidsweg 15 A
3251 LP Stellendam
Netherlands

Telephone: +31 187 663006
e-mail: info@acrylicone.com
Website: https://www.activecomposite.com/

1.4 Emergency telephone number

Emergency information service

+31 187 663006
This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

Poison centre		
Country	**Name**	**Telephone**
Netherlands	Nationaal Vergiftigingen Informatie Centrum (UMC Utrecht) Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen	+31 88 755 8000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.4S	skin sensitisation	1	Skin Sens. 1	H317

For full text of H-phrases: see SECTION 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word: Warning
- pictograms

GHS07

- hazard statements

H317	May cause an allergic skin reaction.

- precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

Contains: 1,2-benzisothiazol-3(2H)-one; 2-Methyl-1,2-thiazol-3(2H)-one - 5-chloro-2-methyl-1,2-thiazol-3(2H)-one.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5 EC No 203-961-6 Index No 603-096-00-8 REACH Reg. No 01-2119475104-44-xxxx	< 10	Eye Irrit. 2 / H319		GHS-HC IOELV
Alcohols, secondary C11-15, ethoxylated	CAS No 68131-40-8 REACH Reg. No 01-2119560577-29-xxxx	< 10	Aquatic Chronic 3 / H412		
1,2-benzisothiazol-3(2H)-one	CAS No 2634-33-5 EC No 220-120-9 Index No 613-088-00-6 REACH Reg. No	< 0,1	Acute Tox. 4 / H302 Acute Tox. 2 / H330 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		GHS-HC

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	01-2120761540-60-xxxx				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No 55965-84-9 EC No 611-341-5 Index No 613-167-00-5	< 0,01	Acute Tox. 3 / H301 Acute Tox. 2 / H310 Acute Tox. 2 / H330 Skin Corr. 1C / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 EUH071		B GHS-HC

Notes

B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

1,2-benzisothiazol-3(2H)-one. CAS No.
2634-33-5.

EC No.
220-120-9. Skin Sens. 1A; H317: C ≥ 0,036 %. M-Factor (acute) = 1. M-Factor (chronic) = 1. 450 $^{mg}/_{kg}$
0,21 $^{mg}/_{l}$/4h. Oral
inhalation: dust/mist. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). CAS No.
55965-84-9.

EC No.
611-341-5. Skin Corr. 1C; H314: C ≥ 0,6 %. Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %. Eye Dam. 1; H318: C ≥ 0,6 %. Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %. Skin Sens. 1A; H317: C ≥ 0,0015 %. M-Factor (acute) = 100. M-Factor (chronic) = 100. 100 $^{mg}/_{kg}$
50 $^{mg}/_{kg}$
0,5 $^{mg}/_{l}$/4h. Oral
dermal
inhalation: vapour.

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Dry extinguishing powder; Carbon dioxide (CO2);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Risk of splashes: > 100 °C / 212F.
Polymer film can burn.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Acrylic monomer.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight. Frost.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels

- storage temperature

Recommended storage temperature: 1 – 49 °C

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

occupational exposure limit values (Workplace Exposure Limits)EU. 2-(2-butoxyethoxy)ethanol. 112-34-5. IOELV. 10. 67,5. 15. 101,2. 2006/15/EC. NL. 2-(2-butoxyethoxy)ethanol. 112-34-5. GW. 7,4. 50. 14,8. 100. H. SC-SZW.

Relevant DNELs/DMELs/PNECs and other threshold levels

relevant DNELs of components of the mixture2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 67,5 mg/m³. Human, inhalatory. Worker (industry). Chronic - systemic effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 83 mg/kg bw/day. Human, dermal. Worker (industry). Chronic - systemic effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 40,5 mg/m³. Human, inhalatory. Consumer (private households). Chronic - systemic effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 40,5 mg/m³. Human, inhalatory. Consumer (private households). Chronic - local effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 60,7 mg/m³. Human, inhalatory. Consumer (private households). Acute - local effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 50 mg/kg bw/day. Human, dermal. Consumer (private households). Chronic - systemic effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 67,5 mg/m³. Human, inhalatory. Worker (industry). Chronic - local effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 101,2 mg/m³. Human, inhalatory. Worker (industry). Acute - local effects. 2-(2-butoxyethoxy)ethanol. 112-34-5. DNEL. 6,25 mg/kg bw/day. Human, oral. Consumer (private households). Chronic - systemic effects. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. DNEL. 42,32 mg/m³. Human, inhalatory. Worker (industry). Chronic - systemic effects. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. DNEL. 6 mg/kg bw/day. Human, dermal. Worker (industry). Chronic - systemic effects. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. DNEL. 21,16 mg/m³. Human, inhalatory. Consumer (private households). Chronic - systemic effects. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. DNEL. 3 mg/kg bw/day. Human, dermal. Consumer (private households). Chronic - systemic effects. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. DNEL. 3 mg/kg bw/day. Human, oral. Consumer (private households). Chronic - systemic effects. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. DNEL. 6,81 mg/m³. Human, inhalatory. Worker (industry). Chronic - systemic effects. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. DNEL. 0,966 mg/kg bw/day. Human, dermal. Worker (industry). Chronic - systemic effects. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. DNEL. 1,2 mg/m³. Human, inhalatory. Consumer (private households). Chronic - systemic effects. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. DNEL. 0,345 mg/kg bw/day. Human, dermal. Consumer (private households). Chronic - systemic effects. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. DNEL. 0,02 mg/m³. Human, inhalatory. Worker (industry). Chronic - local effects. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. DNEL. 0,04 mg/m³. Human, inhalatory. Worker (industry). Acute - local effects. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. DNEL. 0,02 mg/m³. Human, inhalatory. Consumer (private households). Chronic - local effects. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. DNEL. 0,04 mg/m³. Human, inhalatory. Consumer (private households). Acute - local effects. Reaction mass of 5-chloro-2-methyl-2H-iso-

thiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. DNEL. 0,09 mg/kg bw/day. Human, oral. Consumer (private households). Chronic - systemic effects. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. DNEL. 0,11 mg/kg bw/day. Human, oral. Consumer (private households). Acute - systemic effects.

relevant PNECs of components of the mixture2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 56 $^{mg}/_{kg}$. Aquatic organisms. Water. Short-term (single instance). 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 11 $^{mg}/_{l}$. Aquatic organisms. Water. Intermittent release. 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 200 $^{mg}/_{l}$. Aquatic organisms. Sewage treatment plant (STP). Short-term (single instance). 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 1,1 $^{mg}/_{l}$. Aquatic organisms. Freshwater. Short-term (single instance). 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 0,11 $^{mg}/_{l}$. Aquatic organisms. Marine water. Short-term (single instance). 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 4,4 $^{mg}/_{kg}$. Aquatic organisms. Freshwater sediment. Short-term (single instance). 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 0,44 $^{mg}/_{kg}$. Aquatic organisms. Marine sediment. Short-term (single instance). 2-(2-butoxyethoxy)ethanol. 112-34-5. PNEC. 0,32 $^{mg}/_{kg}$. Terrestrial organisms. Soil. Short-term (single instance). Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 0,015 $^{mg}/_{l}$. Aquatic organisms. Water. Intermittent release. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 20 $^{µg}/_{l}$. Aquatic organisms. Freshwater. Short-term (single instance). Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 2 $^{µg}/_{l}$. Aquatic organisms. Marine water. Short-term (single instance). Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 8,24 $^{mg}/_{l}$. Aquatic organisms. Sewage treatment plant (STP). Short-term (single instance). Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 28,1 $^{mg}/_{kg}$. Aquatic organisms. Freshwater sediment. Short-term (single instance). Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 2,81 $^{mg}/_{kg}$. Aquatic organisms. Marine sediment. Short-term (single instance). Alcohols, secondary C11-15, ethoxylated. 68131-40-8. PNEC. 5,6 $^{mg}/_{kg}$. Terrestrial organisms. Soil. Short-term (single instance). 1,2-benzisothiazol-3(2H)-one. 2634-33-5. PNEC. 4,03 $^{µg}/_{l}$. Aquatic organisms. Freshwater. Short-term (single instance). 1,2-benzisothiazol-3(2H)-one. 2634-33-5. PNEC. 0,403 $^{µg}/_{l}$. Aquatic organisms. Marine water. Short-term (single instance). 1,2-benzisothiazol-3(2H)-one. 2634-33-5. PNEC. 1,03 $^{mg}/_{l}$. Aquatic organisms. Sewage treatment plant (STP). Short-term (single instance). 1,2-benzisothiazol-3(2H)-one. 2634-33-5. PNEC. 49,9 $^{µg}/_{kg}$. Aquatic organisms. Freshwater sediment. Short-term (single instance). 1,2-benzisothiazol-3(2H)-one. 2634-33-5. PNEC. 4,99 $^{µg}/_{kg}$. Aquatic organisms. Marine sediment. Short-term (single instance). 1,2-benzisothiazol-3(2H)-one. 2634-33-5. PNEC. 3 $^{mg}/_{kg}$. Terrestrial organisms. Soil. Short-term (single instance). Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. PNEC. 3,39 $^{µg}/_{l}$. Aquatic organisms. Freshwater. Short-term (single instance). Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. PNEC. 3,39 $^{µg}/_{l}$. Aquatic organisms. Marine water. Short-term (single instance). Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. PNEC. 0,23 $^{mg}/_{l}$. Aquatic organisms. Sewage treatment plant (STP). Short-term (single instance). Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. PNEC. 0,027 $^{mg}/_{kg}$. Aquatic organisms. Freshwater sediment. Short-term (single instance). Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. PNEC. 0,027 $^{mg}/_{kg}$. Aquatic organisms. Marine sediment. Short-term (single instance). Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. PNEC. 0,01 $^{mg}/_{kg}$. Terrestrial organisms. Soil. Short-term (single instance).

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN 166).

Skin protection

Protective clothing (EN 340 & EN ISO 13688).

Hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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. Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Nitrile rubber

- material thickness

Use gloves with a minimum material thickness: ≥ 0,38 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	white - milky-white
Odour	like ammonia
Melting point/freezing point	0 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	LEL: UEL: not determined
Flash point	no data available
Auto-ignition temperature	210 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	7,5 – 8,8
Kinematic viscosity	not determined
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	2.266 Pa at 320 °C

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available
Relative density	1,06 (water = 1)

Particle characteristics	not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Upon heating the material during processing, monomer fumes may be released.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

acute toxicity estimate (ATE) of components of the mixture1,2-benzisothiazol-3(2H)-one. 2634-33-5. Oral. 450 $^{mg}/_{kg}$. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. Inhalation: dust/mist. 0,21 $^{mg}/_{l}$/4h. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. Oral. 100 $^{mg}/_{kg}$. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. Dermal. 50 $^{mg}/_{kg}$. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). 55965-84-9. Inhalation: vapour. 0,5 $^{mg}/_{l}$/4h.

acute toxicity of components of the mixture2-(2-butoxyethoxy)ethanol. 112-34-5. Oral. LD50. 2.410 $^{mg}/_{kg}$. Mouse. 2-(2-butoxyethoxy)ethanol. 112-34-5. Dermal. LD50. 2.764 $^{mg}/_{kg}$. Rabbit. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. Oral. LD50. ≥2.000 $^{mg}/_{kg}$. Rat. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. Dermal. LD50. >2.000 $^{mg}/_{kg}$. Rat. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. Oral. LD50. 670 $^{mg}/_{kg}$. Rat. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. Dermal. LD50. >2.000 $^{mg}/_{kg}$. Rat.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

aquatic toxicity (acute) of components of the mixture2-(2-butoxyethoxy)ethanol. 112-34-5. LC50. 1.300 $^{mg}/_{l}$. Fish. 96 h. 2-(2-butoxyethoxy)ethanol. 112-34-5. EC50. >100 $^{mg}/_{l}$. Aquatic invertebrates. 48 h. 2-(2-butoxyethoxy)ethanol. 112-34-5. ErC50. >100 $^{mg}/_{l}$. Algae. 96 h. 2-(2-butoxyethoxy)ethanol. 112-34-5. NOEC. ≥100 $^{mg}/_{l}$. Aquatic invertebrates. 48 h. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. LL50. 1,53 $^{mg}/_{l}$. Fish. 96 h. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. EL50. 5,66 $^{mg}/_{l}$. Aquatic invertebrates. 48 h. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. NOELR. 0,47 $^{mg}/_{l}$. Fish. 96 h. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. Growth (EbCx) 20%. 39 $^{mg}/_{l}$. Microorganisms. 72 h. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. LC50. 16,7 $^{mg}/_{l}$. Fish. 96 h. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. EC50. 2,94 $^{mg}/_{l}$. Aquatic invertebrates. 48 h. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. ErC50. 150 $^{µg}/_{l}$. Algae. 72 h. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. NOEC. 55 $^{µg}/_{l}$. Algae. 72 h.

aquatic toxicity (chronic) of components of the mixture2-(2-butoxyethoxy)ethanol. 112-34-5. Growth (EbCx) 10%. >1.995 $^{mg}/_{l}$. Microorganisms. 30 min. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. EC50. 824 $^{mg}/_{l}$. Microorganisms. 3 h. Alcohols, secondary C11-15, ethoxylated. 68131-40-8. NOEC. 0,2 $^{mg}/_{l}$. Aquatic invertebrates. 21 d. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. EC50. 13 $^{mg}/_{l}$. Microorganisms. 3 h. 1,2-benzisothiazol-3(2H)-one. 2634-33-5. NOEC. 11 $^{mg}/_{l}$. Microorganisms. 3 h.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

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

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	**UN number or ID number**	not subject to transport regulations
14.2	**UN proper shipping name**	not relevant
14.3	**Transport hazard class(es)**	none
14.4	**Packing group**	not assigned
14.5	**Environmental hazards**	non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

A1 LP01 Liquid. This product meets the criteria for classification in accordance with Regulation No 1272/2008/EC. 3. 1,2-benzisothiazol-3(2H)-one. Substances in tattoo inks and permanent make-up. 75. 2-(2-butoxyethoxy)ethanol. 2-(2-butoxyethoxy)ethanol (DEGBE). 55. 2-(2-butoxyethoxy)ethanol. Substances in tattoo inks and permanent make-up. 75. Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). Substances in tattoo inks and permanent make-up. 75.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)Not assigned.

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). Organohalogen compounds and substances which may form such compounds in the aquatic environment. A).

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Netherlands)

SZW-lijst CMR effects

None of the ingredients are listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Complete revision of the safety data sheet. Based on the available information.

Abbreviations and acronyms

2006/15/EC. Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. Acute Tox. Acute toxicity. 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 relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road). Aquatic Acute. Hazardous to the aquatic environment - acute hazard. Aquatic Chronic. Hazardous to the aquatic environment - chronic hazard. ATE. Acute Toxicity Estimate. CAS. Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances). CLP. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. CMR. Carcinogenic, Mutagenic or toxic for Reproduction. DGR. Dangerous Goods Regulations (see IATA/DGR). DMEL. Derived Minimal Effect Level. DNEL. Derived No-Effect Level. EC50. Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval. EC No. The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union). ED. Endocrine disruptor. EINECS. European Inventory of Existing Commercial Chemical Substances. EL50. Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms. ELINCS. European List of Notified Chemical Substances. ErC50. ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control. Eye Dam. Seriously damaging to the eye. Eye Irrit. Irritant to the eye. GHS. "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations. IATA. International Air Transport Association. IATA/DGR. Dangerous Goods Regulations (DGR) for the air transport (IATA). ICAO. International Civil Aviation Organization. IMDG. International Maritime Dangerous Goods Code. Index No. The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008. IOELV. Indicative occupational exposure limit value. LC50. Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval. LD50. Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval. LEL. Lower explosion limit (LEL). LL50. Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality. M-Factor. Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present. NLP. No-Longer Polymer. NOEC. No Observed Effect Concentration. NOELR. No Observed Effect Loading Rate. PBT. Persistent, Bioaccumulative and Toxic. PNEC. Predicted No-Effect Concentration. REACH. Registration, Evaluation, Authorisation and Restriction of Chemicals. RID. Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail). SC-SZW. Staatscourant: Regeling van de Minister van Sociale Zaken en Werkgelegenheid tot wijziging van de Arbeidsomstandighedenregeling. Skin Corr. Corrosive to skin. Skin Irrit. Irritant to skin. Skin Sens. Skin sensitisation. STEL. Short-term exposure limit. SVHC. Substance of Very High Concern. TWA. Time-weighted average. UEL. Upper explosion limit (UEL). VPvB. Very Persistent and very Bioaccumulative.

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

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. H400. Very toxic to aquatic life. H410. Very toxic to aquatic life with long lasting effects. H412. Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.