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

1.1. Product identifier

Mixture identification:

Trade name: ULTRABOND FAST TRACK

Trade code: 9006664

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

Recommended use: Not available

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: MAPEI AUSTRIA GmbH - Fräuleinmühle 2
3134 Nußdorf ob der Traisen

phone: +43-2783-8891 (office hours) - fax: +43-2783-8893 - www.mapei.at

Responsable: office@mapei.at

1.4. Emergency telephone number

Vergiftungsinformationszentrale - Notruf 0–24 Uhr: 01 406 43 43

Antipoison Center - Hospital Name 1 - City - Telephone nbr. (availability information)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Sens. 1A May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/clothing and eye/face protection.

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 applicable regulations.

Special Provisions:

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

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Contains

2-methyl-2H-isothiazol-3-one

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: ULTRABOND FAST TRACK

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification
≥0.016 - <0.02 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302, M-Chronic:1, M-Acute:1 Specific Concentration Limits: C ≥ 0.036%: Skin Sens. 1A H317 Acute Toxicity Estimate: ATE - Oral: 450mg/kg bw ATE - Inhalation (Dust/mist): 0.21mg/l
≥0.003 - <0.005 %	2-methyl-2H-isothiazol-3-one	CAS:2682-20-4 EC:220-239-6 Index:613-326-00-9	Acute Tox. 3, H311; Acute Tox. 3, H301; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 2, H330; Skin Corr. 1B, H314; Skin Sens. 1A, H317, M-Chronic:1, M-Acute:10, EUH071 Specific Concentration Limits: C ≥ 0.0015%: Skin Sens. 1A H317
≥0.0015 - <0.003 %	phosphoric acid ... %	CAS:7664-38-2 EC:231-633-2 Index:015-011-00-6	Met. Corr. 1, H290; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Corr. 1B, H314 Specific Concentration Limits: C ≥ 25%: Skin Corr. 1B H314 10% ≤ C < 25%: Skin Irrit. 2 H315 10% ≤ C < 25%: Eye Irrit. 2 H319
≥0.0001 - <0.001 %	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS:55965-84-9 EC:611-341-5 Index:613-167-00-5	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 3, H301; Skin Corr. 1C, H314; Skin Sens. 1A, H317; Acute Tox. 2, H310; Acute Tox. 2, H330; Eye Dam. 1, H318, M-Chronic:100, M-Acute:100, EUH071 Specific Concentration Limits: C ≥ 0.6%: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 C ≥ 0.6%: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 C ≥ 0.0015%: Skin Sens. 1A H317
≥0.0001 - <0.001 %	formaldehyde	CAS:50-00-0 EC:200-001-8 Index:605-001-00-5	Carc. 1B, H350; Muta. 2, H341; Acute Tox. 2, H330; Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1A, H317, EUH071 Specific Concentration Limits: C ≥ 5%: STOT SE 3 H335 C ≥ 25%: Skin Corr. 1B H314 5% ≤ C < 25%: Skin Irrit. 2 H315 5% ≤ C < 25%: Eye Irrit. 2 H319 Acute Toxicity Estimate: ATE - Oral: 500mg/kg bw ATE - Inhalation (Gas): 100PPMV

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Not available

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO_2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

2-methyl-2H-isothiazol-3-one

CAS: 2682-20-4	CHE	SWITZERLAND	Short Term: 0.4 mg/m3
	DFG	GERMANY	Short Term: Ceiling - 0.4 mg/m3

phosphoric acid ... %

CAS: 7664-38-2	ACGIH		Long Term: 1 mg/m3; Short Term: 3 mg/m3 Notes: eye, skin and upper respiratory tract irritation
	EU		Long Term: 1 mg/m3; Short Term: 2 mg/m3
	Malaysia OEL	MALAYSIA	Long Term: 1 mg/m3
	CHE	SWITZERLAND	Short Term: 2 mg/m3
			Short Term: 4 mg/m3
	DFG	GERMANY	Short Term: Ceiling - 4 mg/m3
	National	BELGIUM	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	BULGARIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	CZECH REPUBLIC	Long Term: 1 mg/m3
			Short Term: Ceiling - 2 mg/m3
	National	GERMANY	Long Term: 2 mg/m3
	National	DENMARK	Long Term: 1 mg/m3
	National	SPAIN	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	ESTONIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	FINLAND	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	FRANCE	Long Term: 1 mg/m3 - 0.2 ppm; Short Term: 2 mg/m3 - 0.5 ppm
	National	UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	GREECE	Long Term: 1 mg/m3; Short Term: 3 mg/m3
	National	CROATIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	HUNGARY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	LITHUANIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	LATVIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	NORWAY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	PORTUGAL	Long Term: 1 mg/m3; Short Term: 3 mg/m3
	National	ROMANIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	SLOVAKIA	Short Term: Ceiling - 2 mg/m3

			Long Term: 1 mg/m3
	National	SLOVENIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	SWEDEN	Long Term: 1 mg/m3
	SUVA	SWITZERLAND	Long Term: 2 mg/m3; Short Term: 4 mg/m3 Notes: SSc
	NDS	NETHERLANDS	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	NDS	POLAND	Long Term: 1 mg/m3
	NDSCh	POLAND	Short Term: 2 mg/m3
	TUR	TURKEY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
formaldehyde			
CAS: 50-00-0	ACGIH		Short Term: Ceiling - 0.3 ppm Notes: DSEN, RSEN, A2 - URT and eye irr
			Long Term: 0.1 ppm; Short Term: 0.3 ppm Notes: A1 - Confirmed Human Carcinogen;eye and upper respiratory tract irritation;upper respiratory tract cancer;dermal sensitizer; respiratory sensitizer
	EU		Long Term: 0.37 mg/m3 - 0.3 ppm; Short Term: 0.74 mg/m3 - 0.6 ppm Notes: Dermal sensitisation
	Malaysia OEL	MALAYSIA	Short Term: Ceiling - 0.37 mg/m3 - 0.3 ppm
	CHE	SWITZERLAND	Short Term: 0.74 mg/m3 - 0.6 ppm
	DFG	GERMANY	Short Term: Ceiling - 0.74 mg/m3 - 0.6 ppm
	National	BULGARIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	CZECH REPUBLIC	Long Term: 0.5 mg/m3
			Short Term: Ceiling - 1 mg/m3
	National	GERMANY	Long Term: 0.37 mg/m3 - 0.3 ppm
	National	DENMARK	Short Term: Ceiling - 0.4 mg/m3 - 0.3 ppm
	National	SPAIN	Long Term: 0.37 mg/m3 - 0.3 ppm; Short Term: 0.74 mg/m3 - 0.6 ppm
	National	ESTONIA	Long Term: 0.6 mg/m3 - 0.5 ppm; Short Term: 1.2 mg/m3 - 1 ppm
	National	FINLAND	Long Term: 0.37 mg/m3 - 0.3 ppm
			Short Term: Ceiling - 1.2 mg/m3 - 1 ppm
	National	FRANCE	Long Term: 0.5 ppm; Short Term: 1 ppm
	National	UNITED KINGDOM	Long Term: 2.5 mg/m3 - 2 ppm; Short Term: 2.5 mg/m3 - 2 ppm
	National	GREECE	Long Term: 2.5 mg/m3 - 2 ppm; Short Term: 2.5 mg/m3 - 2 ppm
	National	CROATIA	Long Term: 2.5 mg/m3 - 2 ppm; Short Term: 2.5 mg/m3 - 2 ppm
	National	HUNGARY	Long Term: 0.6 mg/m3; Short Term: 0.6 mg/m3
	National	LITHUANIA	Long Term: 0.6 mg/m3 - 0.5 ppm
			Short Term: Ceiling - 1.2 mg/m3 - 1 ppm
	National	LATVIA	Long Term: 0.5 mg/m3
	National	NORWAY	Long Term: 0.6 mg/m3 - 0.5 ppm
			Short Term: Ceiling - 1.2 mg/m3 - 1 ppm
	National	PORTUGAL	Short Term: Ceiling - 0.3 ppm
	National	ROMANIA	Long Term: 1.2 mg/m3 - 1 ppm; Short Term: 3 mg/m3 - 2 ppm
	National	SLOVAKIA	Short Term: Ceiling - 0.74 mg/m3
			Long Term: 0.37 mg/m3 - 0.3 ppm
	National	SLOVENIA	Long Term: 0.62 mg/m3 - 0.5 ppm; Short Term: 0.62 mg/m3 - 0.5 ppm
	National	SWEDEN	Long Term: 0.37 mg/m3 - 0.3 ppm
	SUVA	SWITZERLAND	Long Term: 0.37 mg/m3 - 0.3 ppm; Short Term: 0.74 mg/m3 - 0.6 ppm Notes: S, C1#b, SSc
	NDS	NETHERLANDS	Long Term: 0.15 mg/m3; Short Term: 0.5 mg/m3

NDS	POLAND	Long Term: 0.37 mg/m3
NDSCh	POLAND	Short Term: 0.74 mg/m3

Predicted No Effect Concentration (PNEC) values

formaldehyde

CAS: 50-00-0

Exposure Route: Fresh Water; PNEC Limit: 0.47 mg/l

Exposure Route: Marine water; PNEC Limit: 0.47 mg/l

Exposure Route: Intermittent release; PNEC Limit: 4.7 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 0.19 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 2.44 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 2.44 mg/kg

Exposure Route: Soil; PNEC Limit: 0.21 mg/kg

Derived No Effect Level (DNEL) values

phosphoric acid ... %

CAS: 7664-38-2

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 2 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 1 mg/m3; Consumer: 0.36 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 10.7 mg/m3; Consumer: 4.57 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 0.1 mg/kg

formaldehyde

CAS: 50-00-0

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 1 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 240 mg/kg; Consumer: 102 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 9 mg/m3; Consumer: 3.2 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects
Worker Industry: 0.037 mg/cm2; Consumer: 0.012 mg/cm2

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.5 mg/m3; Consumer: 0.1 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 4.1 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Gloves characteristics:

Appropriate gloves thickness and breakthrough time may differ depending on the specific use conditions. Make sure to use protective gloves adequate to the conditions of use.

CEN standard(s) information:

Suitable protective gloves must comply with the appropriate EN 374 standard(s)

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards,

like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Beige
Odour:	Characteristic
Odour threshold:	No data available
pH:	8.00
Kinematic viscosity:	No data available
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	100 °C (212 °F)
Flash point:	No data available
Lower and upper explosion limit:	No data available
Relative vapour density:	No data available
Vapour pressure:	No data available
Density and/or relative density:	1.00 g/cm3
Solubility in water:	dispersible
Solubility in oil:	soluble
Partition coefficient n-octanol/water (log value):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability:	No data available
Volatile Organic compounds - VOCs =	No data available

Particle characteristics:

Particle size:	No data available

9.2. Other information

Explosive properties:	==
Evaporation rate:	No data available
Viscosity:	40,000.00 cPs

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

CAS: 2634-33-5	a) acute toxicity	ATE - Oral: 450 mg/kg bw
		ATE - Inhalation (Dust/mist): 0.21 mg/l
		LD50 Oral Rat = 670 mg/kg

2-methyl-2H-isothiazol-3-one

CAS: 2682-20-4	a) acute toxicity	LD50 Oral Rat = 120 mg/kg
		LD50 Skin Rat = 242 mg/kg
		LD50 Skin Rabbit = 200 mg/kg
		LC50 Inhalation Rat = 0.11 mg/l 4h

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

CAS: 55965-84-9	a) acute toxicity	LC50 Inhalation Rat = 2.36 mg/l 4h
		LD50 Skin Rabbit = 660 mg/kg
		LD50 Oral Rat = 53 mg/kg

formaldehyde

CAS: 50-00-0	a) acute toxicity	ATE - Oral: 500 mg/kg bw
		ATE - Inhalation (Gas): 100 PPMV
		LD50 Oral Rat = 640 mg/kg bw
		LC50 Inhalation Rat = 0.462 ppm
		LD50 Skin Rabbit = 270 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

CAS: 2634-33-5 a) Aquatic acute toxicity: LC50 Fish = 2.15 mg/L
b) Aquatic chronic toxicity: NOEC Algae = 0.0403 mg/L 72h
b) Aquatic chronic toxicity: EC50 Algae = 0.11 mg/L 72h
b) Aquatic chronic toxicity: EC10 Algae = 0.04 mg/L 72h
b) Aquatic chronic toxicity: EC50 Daphnia = 3.27 mg/L 48h
NOEC Daphnia = 1.2 mg/L 21d

2-methyl-2H-isothiazol-3-one

CAS: 2682-20-4 a) Aquatic acute toxicity: LC50 Fish = 4.77 mg/L 96h
a) Aquatic acute toxicity: LC50 Daphnia = 0.93 mg/L 48h
a) Aquatic acute toxicity: EC50 Algae = 0.072 mg/L 72h
b) Aquatic chronic toxicity: NOEC Daphnia = 0.044 mg/L 21d

phosphoric acid ... %

CAS: 7664-38-2 a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48h

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

CAS: 55965-84-9 a) Aquatic acute toxicity: EC50 Daphnia = 0.12 mg/L 48
a) Aquatic acute toxicity: LC50 Fish = 0.22 mg/L 96
a) Aquatic acute toxicity: EC50 Algae = 0.0052 mg/L 48h
b) Aquatic chronic toxicity: NOEC Algae = 0.00049 mg/L
b) Aquatic chronic toxicity: NOEC Fish = 0.098 mg/L - 28 d
b) Aquatic chronic toxicity: NOEC Daphnia = 0.004 mg/L - 21 d

formaldehyde

CAS: 50-00-0 a) Aquatic acute toxicity: LC50 Fish = 41 mg/L 96
a) Aquatic acute toxicity: EC50 Daphnia = 42 mg/L 24
a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 22.6 mg/L 96h EPA
a) Aquatic acute toxicity: LC50 Fish Lepomis macrochirus = 1510 µg/L 96h EPA
a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio = 41 mg/L 96h IUCLID
a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 0.032 mL/L 96h EPA
a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 100 mg/L 96h EPA
a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 23.2 mg/L 96h EPA
a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 2 mg/L 48h IUCLID
a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 11.3 mg/L 48h EPA

12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one

CAS: 2634-33-5 Non-readily biodegradable Notes: OECD 301 C (63 d < 1%)

2-methyl-2H-isothiazol-3-one

CAS: 2682-20-4 Non-readily biodegradable

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

CAS: 55965-84-9 Readily biodegradable Duration: 28 d
Notes: OECD 301 B (62%)

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2024/2564 (ATP 22 CLP)
Regulation (EU) n. 2024/2865
Regulation (EU) n. 2025/1222 (ATP 23 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

None

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 28, 72, 75

SVHC Substances:

SVHC substances not present in a concentration ≥ 0.1% (w/w)

National regulations

MAL-kode: 00-5 (1993)

German Water Hazard Class.

Class 1: slightly hazardous for water.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Code	Description
EUH071	Corrosive to the respiratory tract.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
3.1/2/Dermal	Acute Tox. 2	Acute toxicity (dermal), Category 2
3.1/2/Inhal	Acute Tox. 2	Acute toxicity (inhalation), Category 2
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3

3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.6/1B	Carc. 1B	Carcinogenicity, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Sens. 1A, H317	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

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

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information