Safety Data Sheet according to (EC) No 1907/2006 as amended

SDS No. : 44872
V009.0

AQUENCE LAM 3800 N known as ZELLURA UST 3800 N

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

1.1. Product identifier

AQUENCE LAM 3800 N known as ZELLURA UST 3800 N
UFI: 4MWE-HXUG-220C-9129

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

Intended use:
cellulose adhesive

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Serious eye damage — Category 1
H318 Causes serious eye damage.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains sodium glycollate

Signal word: Danger

Hazard statement:	H318 Causes serious eye damage.
Supplemental information	Contains: 1,2-Benzisothiazol-3(2H)-one; Biphenyl-2-ol May produce an allergic reaction. Treated article acc. to (EC) No 528/2012. Contains biocidal product: preservative 1,2-Benzisothiazol-3(2H)-one; Biphenyl-2-ol
Precautionary statement: Prevention	P280 Wear eye protection.
Precautionary statement: Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg. No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
sodium glycollate 2836-32-0 220-624-9	1- < 5 %	Skin Irrit. 2, H315 Eye Dam. 1, H318		
Sodium carbonate 497-19-8 207-838-8 01-2119485498-19	1- < 3 %	Eye Irrit. 2, H319		
Biphenyl-2-ol 90-43-7 201-993-5 01-2119511183-53	0,1- < 0,25 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Carc. 2, H351 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317	M acute = 1 M chronic = 1	
didecyldimethylammonium chloride 7173-51-5 230-525-2 01-2119945987-15	0,01- < 0,1 %	Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Acute Tox. 3, Oral, H301 Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318	M acute = 10	
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2 223-296-5 01-2119493385-28	0,01- < 0,1 %	Acute Tox. 4, Oral, H302 Acute Tox. 3, Dermal, H311 Skin Irrit. 2, Dermal, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 3, Inhalation, H331 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M acute = 100 ===== dermal:ATE = 790 mg/kg oral:ATE = 500 mg/kg inhalation:ATE = 0,5 mg/l;dust/mist	
1,2-Benzisothiazol-3(2H)-one 2634-33-5 220-120-9 01-2120761540-60	0,0036- < 0,036 % (36 ppm- < 360 ppm)	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, Inhalation, H330	Skin Sens. 1A; H317; C >= 0,036 % ===== M acute = 1 M chronic = 1 ===== oral:ATE = 450 mg/kg inhalation:ATE = 0,21 mg/l;dust/mist	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed
EYE: Irritation, conjunctivitis.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
In case of fire toxic gases can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

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6.3. Methods and material for containment and cleaning up
Dispose of contaminated material as waste according to Section 13.
Remove mechanically.

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6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities
Ensure good ventilation/extraction.
Store in a dry place.
Do not store near sources of heat or ignition, or reactive materials.

7.3. Specific end use(s)
cellulose adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Germany

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Biphenyl-2-ol 90-43-7		5	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Biphenyl-2-ol 90-43-7			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2			Skin designation:	Can be absorbed through the skin.	TRGS 900
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2		0,2	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Biphenyl-2-ol 90-43-7	Soil				2,5 mg/kg		
Biphenyl-2-ol 90-43-7	sewage treatment plant (STP)		0,56 mg/l				
Biphenyl-2-ol 90-43-7	sediment (marine water)				0,013 mg/kg		
Biphenyl-2-ol 90-43-7	aqua (marine water)		0 mg/l				
Biphenyl-2-ol 90-43-7	Freshwater - intermittent		0,027 mg/l				
Biphenyl-2-ol 90-43-7	sediment (freshwater)				0,128 mg/kg		
Biphenyl-2-ol 90-43-7	aqua (freshwater)		0,001 mg/l				
Biphenyl-2-ol 90-43-7	oral				1,87 mg/kg		
Didecyldimethylammonium chloride 7173-51-5	aqua (freshwater)		0,002 mg/l				
Didecyldimethylammonium chloride 7173-51-5	aqua (marine water)		0,0002 mg/l				
Didecyldimethylammonium chloride 7173-51-5	aqua (intermittent releases)		0,00029 mg/l				
Didecyldimethylammonium chloride 7173-51-5	sewage treatment plant (STP)		0,595 mg/l				
Didecyldimethylammonium chloride 7173-51-5	sediment (freshwater)				2,82 mg/kg		
Didecyldimethylammonium chloride 7173-51-5	sediment (marine water)				0,282 mg/kg		
Didecyldimethylammonium chloride 7173-51-5	Soil				1,4 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (freshwater)		0,00403 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (marine water)		0,000403 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Freshwater - intermittent		0,0011 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sewage treatment plant (STP)		1,03 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (freshwater)				0,0499 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (marine water)				0,00499 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Soil				3 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Marine water - intermittent		0,000110 mg/l				

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Sodium carbonate 497-19-8	Workers	inhalation	Long term exposure - local effects		10 mg/m3	
Sodium carbonate 497-19-8	General population	inhalation	Acute/short term exposure - local effects		10 mg/m3	
Biphenyl-2-ol 90-43-7	General population	oral	Long term exposure - systemic effects		0,4 mg/kg	
Biphenyl-2-ol 90-43-7	Workers	inhalation	Long term exposure - systemic effects		19,25 mg/m3	
Biphenyl-2-ol 90-43-7	Workers	dermal	Long term exposure - systemic effects		21,84 mg/kg	
Biphenyl-2-ol 90-43-7	General population	dermal	Long term exposure - systemic effects		0,4 mg/kg	
Biphenyl-2-ol 90-43-7	General population	inhalation	Long term exposure - systemic effects		1,2 mg/m3	
Didecyldimethylammonium chloride 7173-51-5	Workers	inhalation	Long term exposure - local effects			
Didecyldimethylammonium chloride 7173-51-5	Workers	inhalation	Acute/short term exposure - local effects			
Didecyldimethylammonium chloride 7173-51-5	Workers	dermal	Long term exposure - local effects			
Didecyldimethylammonium chloride 7173-51-5	Workers	dermal	Acute/short term exposure - local effects			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	inhalation	Long term exposure - systemic effects		6,81 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	dermal	Long term exposure - systemic effects		0,966 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	inhalation	Long term exposure - systemic effects		1,2 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	dermal	Long term exposure - systemic effects		0,345 mg/kg	

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Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	solid
Colour	Beige
Odor	odourless
Physical state	solid
Melting point	60 - 135 °C (140 - 275 °F)
Solidification temperature	Not applicable, Product is a solid
Initial boiling point	Not applicable, Decomposes before boiling point is reached
Flammability	The product is not flammable.
Explosive limits	Not applicable, Product is a solid
Flash point	Not applicable, Product is a solid
Auto-ignition temperature	Not applicable, Product is a solid
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH (20 °C (68 °F); Conc.: 5,3 Weight%; Solvent: Water 1 : 18)	9 - 11 Dummy
Viscosity (kinematic)	Not applicable, Product is a solid
Viscosity, dynamic (Brookfield; Instrument: RVT; 25 °C (77 °F); speed of rotation: 20 min-1; Spindle No: 4; Solvent: Water 1 : 18 M/M AS)	2.000 - 10.000 mPa.s TE1002-208; Viscosity by Brookfield
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Soluble
Solubility (20 °C; Solvent: Water)	250 g/l; Dummy
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure (20 °C (68 °F))	< 0,1 hPa
Density (20 °C (68 °F))	0,95 - 1,05 g/cm3 no method / method unknown
Relative vapour density:	Not applicable, Product is a solid

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Particle characteristics	Maximum grain size < 1 mm Weight based calculation method

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
None if used for intended purpose.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

General toxicological information:
An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
sodium glycollate 2836-32-0	LD50	7.110 mg/kg	rat	not specified
Sodium carbonate 497-19-8	LD50	2.800 mg/kg	rat	not specified
Biphenyl-2-ol 90-43-7	LD50	2.733 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
didecyldimethylammonium chloride 7173-51-5	LD50	238 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Acute toxicity estimate (ATE)	450 mg/kg		Expert judgement

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Acute dermal toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Sodium carbonate 497-19-8	LD50	> 2.000 mg/kg	rabbit	EPA 16 CFR 1500.40 (Method of testing toxic substances)
Biphenyl-2-ol 90-43-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
didecyldimethylammonium chloride 7173-51-5	LD50	3.342 mg/kg	rabbit	not specified
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Acute toxicity estimate (ATE)	790 mg/kg		Expert judgement
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Acute toxicity estimate (ATE)	0,5 mg/l	dust/mist	4 h		Expert judgement
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Acute toxicity estimate (ATE)	0,21 mg/l	dust/mist			Expert judgement

Skin corrosion/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium carbonate 497-19-8	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Biphenyl-2-ol 90-43-7	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
didecyldimethylammonium chloride 7173-51-5	corrosive	60 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	moderately irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)

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Serious eye damage/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Sodium carbonate 497-19-8	irritating		rabbit	not specified
Biphenyl-2-ol 90-43-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	corrosive	3 h	rabbit	EPA OPP 81-4 (Acute Eye Irritation)

Respiratory or skin sensitization:

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

Hazardous substances CAS-No.	Result	Test type	Species	Method
sodium glycollate 2836-32-0	not sensitising	Guinea pig maximisation test	guinea pig	not specified
Biphenyl-2-ol 90-43-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
didecyldimethylammonium chloride 7173-51-5	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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Germ cell mutagenicity:

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
sodium glycollate 2836-32-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test
sodium glycollate 2836-32-0	negative	in vitro mammalian chromosome aberration test	with and without		Chromosome Aberration Test
Sodium carbonate 497-19-8	negative	bacterial reverse mutation assay (e.g Ames test)	with		Ames Test
Biphenyl-2-ol 90-43-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Biphenyl-2-ol 90-43-7	negative	in vitro mammalian chromosome aberration test	with		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Biphenyl-2-ol 90-43-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
didecyldimethylammonium chloride 7173-51-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
didecyldimethylammonium chloride 7173-51-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
didecyldimethylammonium chloride 7173-51-5	negative	mammalian cell gene mutation assay	no data		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	positive without metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Biphenyl-2-ol 90-43-7	negative	oral: feed		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
didecyldimethylammonium chloride 7173-51-5	negative	oral: unspecified		rat	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	oral: unspecified		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

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Carcinogenicity

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

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Biphenyl-2-ol 90-43-7		oral: feed	2 y daily	rat	male	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
didecyldimethylammonium chloride 7173-51-5	not carcinogenic	oral: feed	104 weeks daily	rat	male	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	not carcinogenic	oral: gavage	104 w daily	rat	male/female	EPA OPP 83-2 (Carcinogenicity)

Reproductive toxicity:

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Biphenyl-2-ol 90-43-7	NOAEL P 460 mg/kg NOAEL F1 460 mg/kg NOAEL F2 460 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
didecyldimethylammonium chloride 7173-51-5	NOAEL P 1500 ppm NOAEL F1 1500 ppm NOAEL F2 4000 ppm		oral: feed	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL P 0,7 mg/kg NOAEL F1 0,7 mg/kg	Two generation study	oral: gavage	rat	EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL P 112 mg/kg NOAEL F1 56,6 mg/kg NOAEL F2 56,6 mg/kg	Two generation study	oral: feed	rat	EPA OPPTS 870.3800 (Reproduction and Fertility Effects)

STOT-single exposure:

No data available.

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STOT-repeated exposure:

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Biphenyl-2-ol 90-43-7	NOAEL 39 mg/kg	oral: feed	2 y daily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
didecyldimethylammonium chloride 7173-51-5	NOAEL ca. 46 mg/kg	oral: feed	93 days daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
didecyldimethylammonium chloride 7173-51-5	NOAEL ca. 31 mg/kg	oral: feed	52 w daily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL 0,5 mg/kg	oral: gavage	90 d	rat	EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL 5 mg/kg	dermal	90 d daily	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOAEL 0,0011 mg/l	inhalation: aerosol	90 d 6 h/d 5 d/w	rat	EPA OPP 82-4 (90-Day Inhalation Toxicity)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 150 mg/kg	oral: gavage	28 days daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 69 mg/kg	oral: feed	90 days daily	rat	EPA OPP 82-1 (90-Day Oral Toxicity)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:
Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
sodium glycollate 2836-32-0	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium carbonate 497-19-8	LC50	300 mg/l	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Biphenyl-2-ol 90-43-7	LC50	4,5 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Biphenyl-2-ol 90-43-7	NOEC	0,036 mg/l	21 d	Pimephales promelas	other guideline:
didecyldimethylammonium chloride 7173-51-5	LC50	0,97 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
didecyldimethylammonium chloride 7173-51-5	NOEC	0,032 mg/l	34 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
didecyldimethylammonium chloride 7173-51-5	NOEC	0,041 mg/l	21 d	Oncorhynchus mykiss	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	LC50	0,007 mg/l	96 h	Oncorhynchus mykiss	EPA OPP 72-1 (Fish Acute Toxicity Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50	2,15 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	0,21 mg/l	30 d	Oncorhynchus mykiss	OECD Guideline 215 (Fish, Juvenile Growth Test)

Toxicity (aquatic invertebrates):

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The table below presents the data of the classified substances present in the mixture.

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Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
sodium glycollate 2836-32-0	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium carbonate 497-19-8	EC50	> 200 - 227 mg/l	48 h	Ceriodaphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Biphenyl-2-ol 90-43-7	EC50	2,7 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
didecyldimethylammonium chloride 7173-51-5	EC50	0,034 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	EC50	0,022 mg/l	48 h	Daphnia magna	EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
sodium glycollate 2836-32-0	NOEC	89,6 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Biphenyl-2-ol 90-43-7	NOEC	0,009 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
didecyldimethylammonium chloride 7173-51-5	NOEC	0,021 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	1,2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
sodium glycollate 2836-32-0	EC50	> 100 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
sodium glycollate 2836-32-0	NOEC	100 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium carbonate 497-19-8	EC50	137 mg/l	5 d	Nitzschia sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
Biphenyl-2-ol 90-43-7	EC50	0,98 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Biphenyl-2-ol 90-43-7	NOEC	0,468 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
didecyldimethylammonium chloride 7173-51-5	EC50	0,026 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
didecyldimethylammonium chloride 7173-51-5	NOEC	0,014 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	EC50	0,46 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	NOEC	0,08 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	0,1087 mg/l	24 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC10	0,0264 mg/l	24 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
sodium glycollate 2836-32-0	EC50	320,6 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Biphenyl-2-ol 90-43-7	EC50	56 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
didecyldimethylammonium chloride 7173-51-5	EC10	5,95 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	EC0	3,2 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	23 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
sodium glycollate 2836-32-0	inherently biodegradable	aerobic	100 %	10 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
sodium glycollate 2836-32-0	readily biodegradable	aerobic	89 - 98 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Biphenyl-2-ol 90-43-7	readily biodegradable	aerobic	75,7 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
didecyldimethylammonium chloride 7173-51-5	inherently biodegradable	no data	87 - 94 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
didecyldimethylammonium chloride 7173-51-5	readily biodegradable	aerobic	81 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	inherently biodegradable	aerobic	89 - 92 %	28 d	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	not readily biodegradable.	aerobic	42,1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Biphenyl-2-ol 90-43-7	21,7	53 h		Danio rerio (reported as Brachydanio rerio)	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
didecyldimethylammonium chloride 7173-51-5	81				not specified
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	< 100			not specified	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	6,62	56 d		not specified	other guideline:

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12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**LogPow**	**Temperature**	**Method**
sodium glycollate 2836-32-0	< -1,2	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Biphenyl-2-ol 90-43-7	3,18	22,5 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	0,7	20 °C	EU Method A.8 (Partition Coefficient)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances **CAS-No.**	**PBT / vPvB**
Sodium carbonate 497-19-8	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.
Biphenyl-2-ol 90-43-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
didecyldimethylammonium chloride 7173-51-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.
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SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	0,0 %

National regulations/information (Germany):

WGK:	WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)
Storage class according to TRGS 510:	11

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
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.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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