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

SDS No. : 100565
V006.0

AQUENCE KL 074

Revision: 11.03.2025
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Replaces version from: 08.06.2023

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

1.1. Product identifier
AQUENCE KL 074
UFI: No UFI required

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
woodworking adhesive

1.3. Details of the supplier of the safety data sheet
Henkel Norden AB
Adhesives SE
Vasagatan 14A
172 61 Sundbyberg

Sweden

Phone: +46 (0) 10 480 7700

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
24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information	Contains: Isothiazolinone mixture (C(M)IT/MIT (3:1)); Formaldehyde May produce an allergic reaction. Safety data sheet available on request. Treated article acc. to (EC) No 528/2012. Contains biocidal product: preservative Isothiazolinone mixture (C(M)IT/MIT (3:1))

2.3. Other hazards

None if used properly.

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

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4 204-685-9 01-2119475110-51	1- < 3 %	Eye Irrit. 2, H319		
Formaldehyde 50-00-0 200-001-8 01-2119488953-20	0,01- < 0,1 %	Acute Tox. 4, Oral, H302 Acute Tox. 2, Inhalation, H330 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Muta. 2, H341 Carc. 1B, H350	Eye Irrit. 2; H319; C 5 - < 25 % STOT SE 3; H335; C >= 5 % Skin Irrit. 2; H315; C 5 - < 25 % Skin Corr. 1B; H314; C >= 25 % ===== oral:ATE = 500 mg/kg inhalation:	
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9 01-2120764691-48	0,0001- < 0,0015 % (1 ppm- < 15 ppm)	Aquatic Chronic 1, H410 Skin Corr. 1C, H314 Acute Tox. 2, Dermal, H310 Acute Tox. 3, Oral, H301 Eye Dam. 1, H318 Acute Tox. 2, Inhalation, H330 Aquatic Acute 1, H400 Skin Sens. 1A, H317	Skin Irrit. 2; H315; C 0,06 - < 0,6 % Skin Corr. 1C; H314; C >= 0,6 % Eye Irrit. 2; H319; C 0,06 - < 0,6 % Eye Dam. 1; H318; C >= 0,6 % Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 M chronic = 100	

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:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

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
No data available.

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.
Danger of slipping on spilled product.

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

6.3. Methods and material for containment and cleaning up
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

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

7.2. Conditions for safe storage, including any incompatibilities
Ensure good ventilation/extraction.
Store frost-free.
Keep only in original container.
Store in a cool, dry place.
Keep away from heat and direct sunlight.

7.3. Specific end use(s)
woodworking adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Formaldehyde 50-00-0 [Formaldehyde]	2	2,5	Time Weighted Average (TWA):		EH40 WEL
Formaldehyde 50-00-0 [Formaldehyde]	2	2,5	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,5	0,62	Time Weighted Average (TWA):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,3	0,37	Time Weighted Average (TWA):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,6		Short Term Exposure Limit (STEL):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]		0,74	Short Term Exposure Limit (STEL):		EU OELIII

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,6	0,738	Short Term Exposure Limit (STEL):	15 minutes Binding OELV	IR_OEL
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,3	0,37	Time Weighted Average (TWA):	Binding OELV	IR_OEL
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,5	0,62	Time Weighted Average (TWA):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,3	0,37	Time Weighted Average (TWA):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]	0,6		Short Term Exposure Limit (STEL):		EU OELIII
Formaldehyde 50-00-0 [FORMALDEHYDE]		0,74	Short Term Exposure Limit (STEL):		EU OELIII
Formaldehyde 50-00-0 [Formaldehyde]	0,5	0,62	Time Weighted Average (TWA):	Binding OELV	IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	aqua (freshwater)		0,108 mg/l				
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	Freshwater - intermittent		0,6 mg/l				
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	sewage treatment plant (STP)		100 mg/l				
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	sediment (freshwater)				0,8 mg/kg		
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	sediment (marine water)				0,08 mg/kg		
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	Soil				0,29 mg/kg		
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	aqua (marine water)		0,011 mg/l				
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	oral				70 mg/kg		
formaldehyde 50-00-0	aqua (freshwater)		0,44 mg/l				
formaldehyde 50-00-0	aqua (marine water)		0,44 mg/l				
formaldehyde 50-00-0	Air						no hazard identified
formaldehyde 50-00-0	sediment (freshwater)				2,3 mg/kg		
formaldehyde 50-00-0	sediment (marine water)				2,3 mg/kg		
formaldehyde 50-00-0	Soil				0,2 mg/kg		
formaldehyde 50-00-0	sewage treatment plant (STP)		0,19 mg/l				
formaldehyde 50-00-0	Predator						no potential for bioaccumulation
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	aqua (freshwater)		0,00339 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	aqua (marine water)		0,00339 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	sewage treatment plant (STP)		0,23 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	sediment (freshwater)				0,027 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	sediment (marine water)				0,027 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Soil				0,01 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Freshwater - intermittent		0,00339 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Marine water - intermittent		0,00339 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	General population	oral	Long term exposure - systemic effects		7,9 mg/kg	
formaldehyde 50-00-0	Workers	inhalation	Long term exposure - systemic effects		9 mg/m3	no hazard identified
formaldehyde 50-00-0	Workers	dermal	Long term exposure - systemic effects		240 mg/kg	no hazard identified
formaldehyde 50-00-0	Workers	dermal	Long term exposure - local effects		0,037 mg/cm2	no hazard identified
formaldehyde 50-00-0	General population	dermal	Long term exposure - local effects		0,012 mg/cm2	no hazard identified
formaldehyde 50-00-0	General population	oral	Long term exposure - systemic effects		4,1 mg/kg	no hazard identified
formaldehyde 50-00-0	General population	inhalation	Long term exposure - systemic effects		3,2 mg/m3	no hazard identified
formaldehyde 50-00-0	General population	inhalation	Long term exposure - local effects		0,1 mg/m3	no hazard identified
formaldehyde 50-00-0	General population	dermal	Long term exposure - systemic effects		102 mg/kg	no hazard identified
formaldehyde 50-00-0	Workers	inhalation	Long term exposure - local effects		0,375 mg/m3	no hazard identified
formaldehyde 50-00-0	Workers	inhalation	Acute/short term exposure - local effects		0,75 mg/m3	no hazard identified
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Workers	inhalation	Long term exposure - local effects		0,02 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Workers	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	inhalation	Long term exposure - local effects		0,02 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	oral	Long term exposure - systemic effects		0,09 mg/kg	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	oral	Acute/short term exposure - systemic effects		0,11 mg/kg	

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (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): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >=1 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:
Protective goggles
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
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	dispersion
Colour	white
Odor	Mild acid
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	0 °C (32 °F) Aqueous solution
Initial boiling point (1.013 hPa)	100 °C (212 °F)no method / method unknown Aqueous solution
Flammability	Not applicable Non flammable product (flash point is greater than 93°C)
Explosive limits	Not applicable, The product is not flammable.
Flash point	Not applicable, Aqueous solution
Auto-ignition temperature	Not applicable, The product is not flammable.
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.: 100 % product; Solvent: Water)	2,5 - 3,5 pH-value
Viscosity (kinematic) (40 °C (104 °F);)	10.000 - 12.500 mm2/s
Viscosity, dynamic (Brookfield; Instrument: RVT; 20 °C (68 °F); speed of rotation: 20 min-1; Spindle No: 6; Conc.: 100 % product)	12.000 - 18.000 mPa.s viscosity Brookfield RVT
Viscosity, dynamic (Epprecht (rotary viscosity); Instrument: Epprecht TVB; 20 °C (68 °F); Conc.: 100 % product)	8.500 - 10.500 mPa.s Dorus-method 520; viscosity Epprecht
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Partition coefficient: n-octanol/water	Not applicable Mixture
Vapour pressure	23,4 hPa Aqueous solution

(20 °C (68 °F))	
Density (20 °C (68 °F))	1,2 g/cm3 no method / method unknown
Relative vapour density: (20 °C)	< 1
Particle characteristics	Not applicable Product is a liquid

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	LD50	11.920 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Formaldehyde 50-00-0	Acute toxicity estimate (ATE)	500 mg/kg		Expert judgement
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LD50	66 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

Hazardous substances CAS-No.	Value type	Value	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	LD50	5.400 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LD50	87,12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	LC50	72,5 mg/l	dust/mist	4 h	rat	not specified
Formaldehyde 50-00-0	Acute toxicity estimate (ATE)	100 ppm	gas			Expert judgement
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LC50	0,171 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Formaldehyde 50-00-0	corrosive	20 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	Category 2A (irritating to eyes)	2 h	Human, in vitro, reconstituted human corneal model	OECD Guideline 492 (Reconstructed Human Cornea-like Epithelium (RhCE) Test Method)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

Respiratory or skin sensitization:

Hazardous substances CAS-No.	Result	Test type	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	not sensitising	Buehler test	guinea pig	EU Method B.6 (Skin Sensitisation)
Formaldehyde 50-00-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified

Germ cell mutagenicity:

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Formaldehyde 50-00-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Formaldehyde 50-00-0	negative	bacterial reverse mutation assay (e.g Ames test)	without		Ames Test
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	ambiguous	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	positive	in vitro mammalian chromosome aberration test	with and without		EPA OPP 84-2 (Mutagenicity Testing)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		rat	EPA OPP 84-2 (Mutagenicity Testing)

Carcinogenicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	not carcinogenic	oral: drinking water	2 y daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	NOAEL P 720 mg/kg NOAEL F1 720 mg/kg	multigeneration study	oral: drinking water	mouse	other guideline:
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL P 30 ppm NOAEL F1 300 ppm NOAEL F2 300 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	NOAEL 250 mg/kg	oral: drinking water	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Formaldehyde 50-00-0	NOAEL 15 mg/kg	oral: drinking water	up to 105 w daily ad libitum	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL 16,3 mg/kg	oral: drinking water	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL 0.34 mg/m3	inhalation: aerosol	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL 2,625 mg/kg	dermal	90 d 6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	LC50	50 - 70 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Formaldehyde 50-00-0	LC50	6,7 mg/l	96 h	Morone saxatilis	OECD Guideline 203 (Fish, Acute Toxicity Test)
Formaldehyde 50-00-0	NOEC	48 mg/l	28 d	Oryzias latipes	OECD Guideline 215 (Fish, Juvenile Growth Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	EC50	665 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Formaldehyde 50-00-0	EC50	5,8 mg/l	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	EC50	0,12 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
Formaldehyde 50-00-0	NOEC	6,4 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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
Formaldehyde 50-00-0	EC50	4,89 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	EC50	0,0052 mg/l	72 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOEC	0,00064 mg/l	48 h	Skeletonema costatum	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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	EC0	1.575 mg/l	30 min		not specified
Formaldehyde 50-00-0	EC50	19 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	EC20	0,97 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4		aerobic	> 90 %	14 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	readily biodegradable	aerobic	100 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Formaldehyde 50-00-0	readily biodegradable	aerobic	93 - 95 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	inherently biodegradable	aerobic	100 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle 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
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	3,6			calculation	QSAR (Quantitative Structure Activity Relationship)

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	1,3		not specified
Formaldehyde 50-00-0	0,35	25 °C	QSAR (Quantitative Structure Activity Relationship)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	> -0,71 - 0,75	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

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
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Formaldehyde 50-00-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	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.

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09.

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 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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:

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
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.

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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