



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

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Ponal Lackleim ProfiLeimer

SDS No. : 124416
V001.1

Revision: 04.04.2022

printing date: 19.08.2022

Replaces version from: 04.04.2018

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

1.1. Product identifier

Ponal Lackleim ProfiLeimer

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

Intended use:

Wood adhesives

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Chronic hazards to the aquatic environment

H412 Harmful to aquatic life with long lasting effects.

Category 3

2.2. Label elements

Label elements (CLP):

Hazard statement:

H412 Harmful to aquatic life with long lasting effects.

Supplemental information	Contains preservative(s): Isothiazolinone mixture 3:1 (CIT/MIT). May produce an allergic reaction.
Precautionary statement:	P102 Keep out of reach of children. P101 If medical advice is needed, have product container or label at hand.
Precautionary statement: Prevention	P262 Do not get in eyes, on skin, or on clothing. P273 Avoid release to the environment.
Precautionary statement: Disposal	P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Following substances are present in a concentration $\geq 0,1\%$ and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration \geq the concentration limit 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
Methyl oxirane polymer with oxirane, monobutyl ether 9038-95-3	1- < 5 %	Eye Irrit. 2, H319		
2-Dimethylaminoethanol 108-01-0 203-542-8 01-2119492298-24	0,1- < 1 %	Acute Tox. 3, Inhalation, H331 Acute Tox. 4, Oral, H302 Flam. Liq. 3, H226 Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318	STOT SE 3; H335; C >= 5 % ===== inhalation:ATE = 6,1 mg/l;vapour	
Triethylamine 121-44-8 204-469-4 01-2119475467-26	0,1- < 1 %	Acute Tox. 3, Dermal, H311 Acute Tox. 3, Inhalation, H331 Flam. Liq. 2, H225 Skin Corr. 1A, H314 Acute Tox. 4, Oral, H302 STOT SE 3, H335	STOT SE 3; H335; C >= 1 %	EU OEL
2-n-butyl-benzo[d]isothiazol-3-one 4299-07-4 420-590-7	0,025- < 0,25 %	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1B, H314	M acute = 10 M chronic = 10 ===== oral:ATE = 4.267 mg/kg	
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 01-2120764691-48	0,0001- < 0,0015 % (1 ppm- < 15 ppm)	Acute Tox. 2, Inhalation, H330 Aquatic Chronic 1, H410 Acute Tox. 3, Oral, H301 Acute Tox. 2, Dermal, H310 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Skin Corr. 1C, H314	Eye Irrit. 2; H319; C 0,06 - < 0,6 % Skin Irrit. 2; H315; C 0,06 - < 0,6 % Eye Dam. 1; H318; C >= 0,6 % Skin Sens. 1A; H317; C >= 0,0015 % Skin Corr. 1C; H314; C >= 0,6 % ===== M acute = 100 M chronic = 100	

**For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.**

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

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 and throat. Drink 1-2 glasses of water. Seek medical advice.

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:**

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) 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**

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

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

Frost-sensitive

Ensure good ventilation/extraction.

Store frost-free.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Wood adhesives

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
2-Dimethylaminoethanol 108-01-0 [2-DIMETHYLAMINOETHANOL]	2	7,4	Time Weighted Average (TWA):		EH40 WEL
2-Dimethylaminoethanol 108-01-0 [2-DIMETHYLAMINOETHANOL]	6	22	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Triethylamine 121-44-8 [TRIETHYLAMINE]			Skin designation:	Can be absorbed through the skin.	ECLTV
Triethylamine 121-44-8 [TRIETHYLAMINE]	2	8	Time Weighted Average (TWA):		EH40 WEL
Triethylamine 121-44-8 [TRIETHYLAMINE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Triethylamine 121-44-8 [TRIETHYLAMINE]	2	8,4	Time Weighted Average (TWA):	Indicative	ECLTV
Triethylamine 121-44-8 [TRIETHYLAMINE]	3	12,6	Short Term Exposure Limit (STEL):	Indicative	ECLTV
Triethylamine 121-44-8 [TRIETHYLAMINE]	4	17	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Triethylamine 121-44-8 [TRIETHYLAMINE]			Skin designation:	Can be absorbed through the skin.	ECLTV
Triethylamine 121-44-8 [TRIETHYLAMINE]	2	8,4	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Triethylamine 121-44-8 [TRIETHYLAMINE]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Triethylamine 121-44-8 [TRIETHYLAMINE]	2	8,4	Time Weighted Average (TWA):	Indicative	ECLTV
Triethylamine 121-44-8 [TRIETHYLAMINE]	3	12,6	Short Term Exposure Limit (STEL):	Indicative	ECLTV
Triethylamine 121-44-8 [TRIETHYLAMINE]	3	12,6	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
2-Dimethylaminoethanol 108-01-0	aqua (freshwater)		0,0661 mg/l				
2-Dimethylaminoethanol 108-01-0	aqua (marine water)		0,004 mg/l				
2-Dimethylaminoethanol 108-01-0	aqua (intermittent releases)		0,661 mg/l				
2-Dimethylaminoethanol 108-01-0	sediment (freshwater)				0,246 mg/kg		
2-Dimethylaminoethanol 108-01-0	Soil				0,01 mg/kg		
2-Dimethylaminoethanol 108-01-0	sewage treatment plant (STP)		10 mg/l				
2-Dimethylaminoethanol 108-01-0	sediment (marine water)				0,015 mg/kg		
Triethylamine 121-44-8	aqua (freshwater)		0,11 mg/l				
Triethylamine 121-44-8	aqua (marine water)		0,011 mg/l				
Triethylamine 121-44-8	sewage treatment plant (STP)		100 mg/l				
Triethylamine 121-44-8	sediment (freshwater)				1,575 mg/kg		
Triethylamine 121-44-8	sediment (marine water)				0,158 mg/kg		
Triethylamine 121-44-8	Soil				0,25 mg/kg		
Triethylamine 121-44-8	aqua (intermittent releases)		0,08 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	aqua (freshwater)		0,00339 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	aqua (marine water)		0,00339 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	sewage treatment plant (STP)		0,23 mg/l				
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	sediment (freshwater)				0,027 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	sediment (marine water)				0,027 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	Soil				0,01 mg/kg		
Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9	aqua (intermittent releases)		0,00339 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-Dimethylaminoethanol 108-01-0	Workers	inhalation	Long term exposure - systemic effects		1,76 mg/m ³	
2-Dimethylaminoethanol 108-01-0	Workers	inhalation	Acute/short term exposure - systemic effects		5,28 mg/m ³	
2-Dimethylaminoethanol 108-01-0	Workers	inhalation	Long term exposure - local effects		1,76 mg/m ³	
2-Dimethylaminoethanol 108-01-0	Workers	inhalation	Acute/short term exposure - local effects		13,53 mg/m ³	
2-Dimethylaminoethanol 108-01-0	Workers	dermal	Long term exposure - systemic effects		0,25 mg/kg	
2-Dimethylaminoethanol 108-01-0	Workers	dermal	Acute/short term exposure - systemic effects		1,2 mg/kg	
2-Dimethylaminoethanol 108-01-0	Workers	dermal	Long term exposure - local effects		0,1 mg/cm ²	
2-Dimethylaminoethanol 108-01-0	General population	inhalation	Long term exposure - systemic effects		0,438 mg/m ³	
2-Dimethylaminoethanol 108-01-0	General population	oral	Long term exposure - systemic effects		0,126 mg/kg	
Triethylamine 121-44-8	Workers	Inhalation	Acute/short term exposure - systemic effects		12,6 mg/m ³	
Triethylamine 121-44-8	Workers	Inhalation	Acute/short term exposure - local effects		12,6 mg/m ³	
Triethylamine 121-44-8	Workers	Inhalation	Long term exposure - systemic effects		8,4 mg/m ³	
Triethylamine 121-44-8	Workers	Inhalation	Long term exposure - local effects		8,4 mg/m ³	
Triethylamine 121-44-8	Workers	dermal	Long term exposure - systemic effects		12,1 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Workers	inhalation	Long term exposure - local effects		0,02 mg/m ³	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	Workers	inhalation	Acute/short term exposure - local effects		0,04 mg/m ³	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	inhalation	Long term exposure - local effects		0,02 mg/m ³	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	inhalation	Acute/short term exposure - local effects		0,04 mg/m ³	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	oral	Long term exposure - systemic effects		0,09 mg/kg	
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	General population	oral	Acute/short term exposure - systemic effects		0,11 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.4 mm

Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

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**

Physical state	liquid
Delivery form	dispersion
Colour	white
Odor	neutral
Melting point	Not applicable, Product is a liquid
Solidification temperature	0 °C (32 °F) Aqueous solution
Initial boiling point	100 °C (212 °F) Dummy Aqueous solution
Flammability	Not applicable
Explosive limits	Non flammable product (flash point is greater than 93°C)
Flash point	Not applicable, The product is not flammable.
Auto-ignition temperature	Not applicable, Aqueous solution
Decomposition temperature	Not applicable, The product is not flammable.
	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	8 - 9,5 pH-value
(20 °C (68 °F); Conc.: 100 % product; Solvent: Water)	
Viscosity (kinematic)	4.091 - 18.182 mm ² /s
(40 °C (104 °F);)	
Viscosity, dynamic	4.500 - 20.000 mPa.s viscosity Brookfield RVT
(Brookfield; Instrument: RVT; 20 °C (68 °F); speed of rotation: 20 min ⁻¹ ; Spindle No: 5)	

Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Miscible
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure (20 °C (68 °F))	Mixture 23,4 hPaAqueous solution
Density (20 °C (68 °F))	1,1 g/cm ³ Dummy
Relative vapour density: (20 °C)	< 1
Particle characteristics	Not applicable
Particle characteristics	Product is a liquid
	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

None known.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
2-Dimethylaminoethanol 108-01-0	LD50	1.182,7 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Triethylamine 121-44-8	LD50	730 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	LD50	4.267 - 4.732 mg/kg	rat	not specified
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	Acute toxicity estimate (ATE)	4.267 mg/kg		Expert judgement
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	66 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
2-Dimethylaminoethanol 108-01-0	LD50	1.219 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Triethylamine 121-44-8	LD50	580 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	LD50	> 2.000 mg/kg	rat	not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LD50	87,12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	Acute toxicity estimate (ATE)	6,1 mg/l	vapour			Expert judgement
2-Dimethylaminoethanol 108-01-0	LC50	1641 ppm	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Triethylamine 121-44-8	LC50	7,22 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0,171 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Triethylamine 121-44-8	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	corrosive	4 h		not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	highly irritating		rabbit	not specified
Triethylamine 121-44-8	highly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
2-Dimethylaminoethanol 108-01-0	ambiguous		mouse	not specified
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	sensitising			not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Triethylamine 121-44-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Triethylamine 121-44-8	negative	sister chromatid exchange assay in mammalian cells	with and without		Sister Chromatid Exchange Assay
Isothiazolinone mixture 3:1 (CIT/MIT) 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 3:1 (CIT/MIT) 55965-84-9	positive	in vitro mammalian chromosome aberration test	with and without		EPA OPP 84-2 (Mutagenicity Testing)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 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)
Triethylamine 121-44-8	negative	inhalation		rat	not specified
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	negative				not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	negative	oral: gavage		rat	EPA OPP 84-2 (Mutagenicity Testing)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	NOAEL P 600 ppm NOAEL F1 1700 ppm	Two generation study	oral: feed	rat	not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 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::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
2-Dimethylaminoethanol 108-01-0	NOAEL 0,18	oral: feed	90 days daily	rat	not specified
2-Dimethylaminoethanol 108-01-0	NOAEL 24 mg/l	inhalation	13 weeks 6 h/d, 5 d/w	rat	not specified
2-n-butyl- benzo[d]isothiazol-3-one 4299-07-4	NOAEL 15 mg/kg		90 d daily	rat	not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 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 3:1 (CIT/MIT) 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 3:1 (CIT/MIT) 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 mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Methyl oxirane polymer with oxirane, monobutyl ether 9038-95-3	LC50	> 1.000 mg/l	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Dimethylaminoethanol 108-01-0	LC50	81 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Triethylamine 121-44-8	LC50	24 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-n-butyl-benzo[d]isothiazol-3-one 4299-07-4	LC50	0,15 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	EC50	98,77 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Triethylamine 121-44-8	LC50	17 mg/l	48 h	Ceriodaphnia dubia	other guideline:
2-n-butyl-benzo[d]isothiazol-3-one 4299-07-4	EC50	0,093 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,12 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Triethylamine 121-44-8	NOEC	11 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	EC50	35 mg/l	72 h	Scenedesmus sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triethylamine 121-44-8	EC50	8 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triethylamine 121-44-8	NOEC	1,1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-n-butyl-benzo[d]isothiazol- 3-one 4299-07-4	ErC50	0,45 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	not specified
2-n-butyl-benzo[d]isothiazol- 3-one 4299-07-4	NOEC	0,099 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	EC50	0,0052 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	NOEC	0,00064 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-Dimethylaminoethanol 108-01-0	EC10	> 8.000 mg/l	16 h		not specified
Triethylamine 121-44-8	EC10	71 mg/l	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 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

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
2-Dimethylaminoethanol 108-01-0		aerobic	> 90 %	13 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
2-Dimethylaminoethanol 108-01-0	readily biodegradable	aerobic	60,5 %	14 day	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Triethylamine 121-44-8	readily biodegradable	aerobic	80,3 %	29 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	inherently biodegradable	aerobic	100 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9	3,6			calculation	QSAR (Quantitative Structure Activity Relationship)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
2-Dimethylaminoethanol 108-01-0	-0,55	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Triethylamine 121-44-8	1,45		not specified
2-n-butyl-benzo[d]isothiazol-3-one 4299-07-4	2,86		not specified
Isothiazolinone mixture 3:1 (CIT/MIT) 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

Hazardous substances CAS-No.	PBT / vPvB
2-Dimethylaminoethanol 108-01-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Triethylamine 121-44-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isothiazolinone mixture 3:1 (CIT/MIT) 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:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

SECTION 14: Transport information

- 14.1. UN 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

No information available:

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

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:

H225 Highly flammable liquid and vapor.
 H226 Flammable liquid and vapor.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H310 Fatal in contact with skin.
 H311 Toxic in contact with skin.
 H312 Harmful 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.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.
 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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