

Nobilis Salenvac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.0	06.04.2024	7522676-00009	Date of first issue: 13.11.2020

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

1.1	Product identifier Trade name	:	Nobilis Salenvac Formulation
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary medicine
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.
Precautionary statements	:	Prevention: P272 Contaminated work clothing should not be allowed out

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		of the workplace. P280 Wear prot	tective gloves.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label: Maleic acid Formaldehyde

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

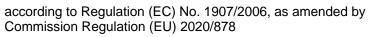
Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

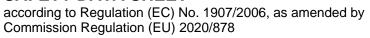
Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Antigen	Not Assigned		4 - <= 12
Maleic acid	110-16-7 203-742-5 607-095-00-3	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 	0,23





ersion D	Revision Date: 06.04.2024		Date of last issue: 30.09.2023 Date of first issue: 13.11.2020	
	aldehyde	7522676-00009	Acute toxicity esti- mate Acute oral toxicity: 300,03 mg/kg Acute dermal toxici- ty: 1.560 mg/kg Flam. Gas 1B; H221 Acute Tox. 3; H301	<= 0,025
Thiom	nersal	54-64-8 200-210-4 080-004-00-7	Acute dermal toxici- ty: 270 mg/kg Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 1; H310 Repr. 1B; H360 STOT RE 1; H372	<= 0,013





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			(Central nervous system, Cardio- vascular system, Gastrointestinal tract, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Specific concentra- tion limit STOT RE 2; H373 >= 0,1 % Acute toxicity esti- mate Acute oral toxicity: 10 mg/kg Acute inbalation
			Acute inhalation toxicity (dust/mist): 0,1 mg/l Acute dermal toxici- ty: 10 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.		
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.		
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water.		



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			Get medical atten Wash clothing be	
In cas	se of eye contact	:		vater as a precaution. ntion if irritation develops and persists.
lf swa	llowed	:	Get medical atter	NOT induce vomiting. ntion if symptoms occur. roughly with water.
4.2 Most i Risks	mportant symptoms ar			-
RISKS		:	May cause an all	ergic skin reaction.
4.3 Indica	tion of any immediate	mec	lical attention an	d special treatment needed
Treat	ment	:	Treat symptomat	ically and supportively.
Sultar	ole extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
			Carbon dioxide (
Unsui media	itable extinguishing a	:	None known.	
5.2 Specia	al hazards arising from	the	substance or m	ixture
Speci fightir		:	Exposure to com	bustion products may be a hazard to health.
Hazaı ucts	rdous combustion prod-	:	Carbon oxides	
5.3 Advice	e for firefighters			
Speci	al protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. Iged containers from fire area if it is safe to c



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	lse personal protective equipment. follow safe handling advice (see section ective equipment recommendations (see	
6.2 Environmental precautions Environmental precautions	woid release to the environment. Prevent further leakage or spillage if safe	a to do so
	Prevent spreading over a wide area (e.g. arriers). Retain and dispose of contaminated was	by containment or oil

cannot be contained.

Local authorities should be advised if significant spillages

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
		Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	See Engineering measures unde CONTROLS/PERSONAL PROT	
Local/Total ventilation Advice on safe handling	Use only with adequate ventilation Do not get on skin or clothing. Avoid breathing mist or vapours. Do not swallow.	
	Avoid contact with eyes. Handle in accordance with good practice, based on the results of sessment Take care to prevent spills, waste environment.	the workplace exposure as-
Hygiene measures	If exposure to chemical is likely of	luring typical use, provide eye

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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		flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contamina work clothing should not be allowed out of the workplace Wash contaminated clothing before re-use. The effective operation of a facility should include review engineering controls, proper personal protective equipme appropriate degowning and decontamination procedures industrial hygiene monitoring, medical surveillance and th use of administrative controls.			
7.2 Condit	ions for safe storage,	inc	luding any incom	patibilities	
	rements for storage and containers	:	Keep in properly the particular nati	labelled containers. Store in accordance with onal regulations.	
Advice	e on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents	
7.3 Specifi	c end use(s)				

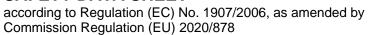
Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis				
Formaldehyde	50-00-0	TWA	0,3 ppm	FOR-2011-				
			0,37 mg/m3	12-06-1358				
	Further inform	nation: Substances c	onsidered to be carcinogenic	, Substances				
	considered to	evoke allergies whe	n coming into touch with the	eyes or air-				
	ways or evoki	ng allergies after cor	ming into contact with the ski	n				
		STEL	0,6 ppm	FOR-2011-				
			0,74 mg/m3	12-06-1358				
	Further inform	nation: Substances c	onsidered to be carcinogenic	, Substances				
	considered to	evoke allergies whe	n coming into touch with the	eyes or air-				
	ways or evoki	ways or evoking allergies after coming into contact with the skin						
		TWA	0,3 ppm	2004/37/EC				
			0,37 mg/m3					
	Further inform	Further information: Dermal sensitisation, Carcinogens or mutagens						
		STEL	0,6 ppm	2004/37/EC				
			0,74 mg/m3					
	Further inform	nation: Dermal sensit	tisation, Carcinogens or muta	agens				
Thiomersal	54-64-8	TWA	0,01 mg/m3	FOR-2011-				
			(Mercury)	12-06-1358				
	Further inform	nation: Substances c	onsidered to evoke allergies	when coming				
			s or evoking allergies after co					
	tact with the skin, Chemicals that can be absorbed through the skin.							





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Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Thiomersal	54-64-8	Mercury (Mercury): 30 µg/g creatinine		AN 361
		(Urine)		

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Maleic acid	Workers	Inhalation	Long-term systemic effects	3 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	3 mg/m3
	Workers	Inhalation	Long-term local ef- fects	3 mg/m3
	Workers	Inhalation	Acute local effects	3 mg/m3
Formaldehyde	Workers	Inhalation	Long-term systemic effects	9 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,375 mg/m3
	Workers	Inhalation	Acute local effects	0,75 mg/m3
	Workers	Skin contact	Long-term systemic effects	240 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	0,037 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	3,2 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	0,1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Consumers	Skin contact	Long-term local ef- fects	0,012 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	4,1 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Environmental Compartment Value				
Maleic acid	Fresh water	0,1 mg/l				
	Freshwater - intermittent	0,428 mg/l				
	Marine water	0,01 mg/l				
	Sewage treatment plant	44,6 mg/l				
	Fresh water sediment	0,334 mg/kg dry				
		weight (d.w.)				
	Marine sediment	0,033 mg/kg dry				
		weight (d.w.)				
	Soil	0,042 mg/kg dry				
		weight (d.w.)				
Formaldehyde	Fresh water	0,44 mg/l				
	Freshwater - intermittent	4,44 mg/l				
	Marine water	0,44 mg/l				
	Sewage treatment plant	0,19 mg/l				

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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II		Fresh water s	ediment	2,3 mg/kg dry weight (d.w.)
		Marine sedim	ent	2,3 mg/kg dry weight (d.w.)
		Soil		0,2 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 143
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	cream
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



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		explosion limit / Upper ability limit	:	No data available	e
		explosion limit / Lower ability limit	:	No data available	e
	Flash p	point	:	No data available	e
	Auto-ig	nition temperature	:	No data available	e
	Decom	position temperature	:	No data available	e
	рН		:	6,6 - 7,0	
	Viscos Viso	ity cosity, kinematic	:	Not applicable	
	Solubil Wa	ity(ies) ter solubility	:	soluble	
	Partitio octano	n coefficient: n- l/water	:	No data available	e
	Vapou	r pressure	:	Not applicable	
	Relativ	e density	:	ca. 1	
	Density	y	:	ca. 1 g/cm³ similar to water	
	Relativ	e vapour density	:	Not applicable	
		e characteristics ticle size	:	No data available	e
9.2		nformation			
	Explos		:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapoi	ration rate	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.



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10.2 Cher	nical stability							
	Stable under normal conditions.							
10.3 Poss	bibility of hazardous r	eacti	ons					
Haza	Hazardous reactions : Can react with strong oxidizing agents.							
10 4 Con	ditions to svoid							
	ditions to avoid litions to avoid		None known.					
Conta								
10.5 Inco	mpatible materials							
Mate	rials to avoid	:	Oxidizing agents	5				
	rdaua daaamnaaitia		duata					
	irdous decompositio azardous decompositio	-						
	•							
SECTION	N 11: Toxicological	Intor	mation					
11.1 Infor	mation on hazard cla	sses	as defined in Red	gulation (EC) No 1272/2008				
	mation on likely routes		Inhalation					
expo	sure		Skin contact					
			Ingestion Eye contact					
Acut	e toxicity		-					
Not c	lassified based on ava	ilable	information.					
Com	ponents:							
Male	ic acid:							
Acute	e oral toxicity	:	LD50 (Rat): > 30					
				Test Guideline 401				
			Remarks: Based	on data from similar materials				
Acute	e dermal toxicity	:	LD50 (Rabbit): 1	.560 mg/kg				
II Form	aldahuda							
	aldehyde: e oral toxicity		Acute toxicity est	imate: 100 mg/kg				
		-	Method: Expert ju					
Acute	e inhalation toxicity	:	Acute toxicity est	imate: 100 ppm				
			Exposure time: 4	h				
			Test atmosphere Method: Expert ju					
				-				
Acute	e dermal toxicity	:	LD50 (Rabbit): 2	70 mg/kg				
Thio	mersal:							
	e oral toxicity	:	LD50 (Rat): 75 m	ng/kg				
II			· · /					



ersion 0	Revision Date: 06.04.2024	SDS Number:Date of last issue: 30.09.20237522676-00009Date of first issue: 13.11.2020
		Acute toxicity estimate: 10 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.
Acute	inhalation toxicity	 Acute toxicity estimate: 0,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Remarks: Based on national or regional regulation.
Acute	dermal toxicity	: Acute toxicity estimate: 10 mg/kg Method: Expert judgement Remarks: Based on national or regional regulation.
	corrosion/irritation assified based on ava	ailable information.
<u>Comp</u>	oonents:	
	c acid:	
Specie Metho		in vitro membrane barrierOECD Test Guideline 435
Resul	t	: Corrosive after 3 minutes to 1 hour of exposure
Forma	aldehyde:	
Specie Metho Resul	od	 Rabbit OECD Test Guideline 404 Corrosive after 3 minutes to 1 hour of exposure
	us eye damage/eye assified based on ava	
	oonents:	
Malei	c acid:	
Resul [:] Rema		Irreversible effects on the eyeBased on skin corrosivity.
Forma	aldehyde:	
Specie Resul		RabbitIrreversible effects on the eye
Respi	iratory or skin sensi	tisation
	sensitisation ause an allergic skin	reaction.
-	ratory sensitisation assified based on ava	

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<u>Comp</u>	oonents:			
Malei	c acid:			
Test			Maximisation Te	st
Expos	sure routes	÷	Skin contact	
Speci		÷	Guinea pig	
Metho			OECD Test Guid	deline 406
Resul	t	:	positive	
Asses	ssment	:	Probability or ev	idence of skin sensitisation in humans
Form	aldehyde:			
Test 1	Гуре	:	Local lymph nod	e assay (LLNA)
	sure routes	:	Skin contact	
Speci		:	Mouse	
Metho	bd	:	OECD Test Guid	deline 429
Resul		:	positive	
Asses	ssment	:	Probability or ev mans	idence of high skin sensitisation rate in h
Not cl	cell mutagenicity assified based on availa	able	information.	
Not cl <u>Comp</u> Malei	assified based on availa ponents: c acid:	able		erial reverse mutation assay (AMES)
Not cl <u>Comp</u> Malei	assified based on availa	able :		erial reverse mutation assay (AMES)
Not cl <u>Comp</u> Malei	assified based on availa ponents: c acid:	able :	Test Type: Bacto Result: negative Test Type: In vit	erial reverse mutation assay (AMES) ro mammalian cell gene mutation test Test Guideline 476
Not cl <u>Comr</u> Malei Geno	assified based on availa ponents: c acid:	able :	Test Type: Bacto Result: negative Test Type: In vit Method: OECD	ro mammalian cell gene mutation test
Not cl Comr Malei Geno Form	assified based on availa <u>conents:</u> c acid: toxicity in vitro	able :	Test Type: Bactor Result: negative Test Type: In vit Method: OECD Result: negative	ro mammalian cell gene mutation test
Not cl Comr Malei Geno Form	assified based on availa <u>conents:</u> c acid: toxicity in vitro aldehyde:	able :	Test Type: Bacte Result: negative Test Type: In vit Method: OECD Result: negative Test Type: Bacte Result: positive	ro mammalian cell gene mutation test Test Guideline 476
Not cl Comr Malei Geno Form	assified based on availa <u>conents:</u> c acid: toxicity in vitro aldehyde:	able : :	Test Type: Bacter Result: negative Test Type: In vit Method: OECD Result: negative Test Type: Bacter Result: positive Test Type: Chro Result: positive	ro mammalian cell gene mutation test Test Guideline 476 erial reverse mutation assay (AMES) mosome aberration test in vitro malian erythrocyte micronucleus test (in v

Thiomersal:

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Geno	Genotoxicity in vitro		Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)	
Geno	Genotoxicity in vivo		Test Type: Mammalian spermatogonial chromosome aberra- tion test (in vivo) Species: Mouse Application Route: Ingestion Result: negative		
	nogenicity lassified based on avai	lable	information.		
Com	oonents:				
Malei	c acid:				
Speci		:	Rat		
	cation Route	:	Ingestion		
Expos Resul	sure time	:	2 Years negative		
Rema		:	-	om similar materials	
Form	aldehyde:				
Speci		:	Rat		
	cation Route sure time	:	inhalation (gas) 28 Months		
Resul		:	positive		
Carcii ment	nogenicity - Assess-	:	Sufficient evidend	ce of carcinogenicity in animal experiments	
Thior	nersal:				
Speci		:	Rat		
Expos Resul	sure time It	:	1 Years negative		
-	oductive toxicity				
Not cl	assified based on avai	lable	information.		
<u>Com</u>	oonents:				
Malei	c acid:				
Effect	s on fertility	:	Species: Rat Application Route Result: negative	peneration reproduction toxicity study e: Ingestion on data from similar materials	
Effect ment	s on foetal develop-	:	Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion on data from similar materials	
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II					
	aldehyde:				
Effects on foetal develop- ment		S	pecies: Rat	oryo-foetal development ute: inhalation (gas) e	
Thion	nersal:				
Effect ment	s on foetal develop-	A R	esult: positive	ute: Ingestion e ed on data from similar materials	
Repro sessn	oductive toxicity - As- nent			e of adverse effects on sexual function and fert levelopment, based on animal experiments	
	- single exposure				
	assified based on ava	ilable inf	ormation.		
-	oonents:				
	c acid:	· •		niroton (irritotion	
Rema	ssment Irks			piratory irritation. onal or regional regulation.	
	aldehyde:				
Asses	ssment	: N	lay cause res	piratory irritation.	
	- repeated exposure		ormation.		
	oonents:				
	aldehyde:				
Expos	sure routes ssment	: T) or mixture is not classified as specific target repeated exposure.	
Thion	nersal:				
Targe	t Organs			s system, Cardio-vascular system, Gastrointe	
Asses	ssment	: C	nal tract, Kidn Causes damag xposure.	ey ge to organs through prolonged or repeated	
Repe	ated dose toxicity				
Comp	oonents:				
Form	aldehyde:				

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Speci NOAE LOAE Applic Expos	EL	: Rat : 6 ppm : 10 ppm : inhalation (gas : 28 Days)
Thion	nersal:		
Speci LOAE Applic Rema	L ation Route	: Rat : >= 0,5 mg/kg : Ingestion : Based on data	from similar materials

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Maleic acid:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 10 - 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 42,81 mg/l Exposure time: 48 h Test substance: Neutralised product Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 74,35 mg/l Exposure time: 72 h Test substance: Neutralised product Method: OECD Test Guideline 201
		EC10 (Pseudokirchneriella subcapitata (green algae)): 11,8 mg/l

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			Exposure time: 72 Test substance: N Method: OECD Te	leutralised product	
Toxi	icity to microorganisms	:	Exposure time: 18	leutralised product	
aqu	icity to daphnia and other atic invertebrates (Chron- ixicity)	:	NOEC: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials		
For	maldehyde:				
	icity to fish	:	LC50 : 6,7 mg/l Exposure time: 96 Remarks: Based o	6 h on data from similar materials	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia po Exposure time: 48 Method: OECD To		
Toxi plan	icity to algae/aquatic hts	:	EC50 (Desmodesmus subspicatus (green algae)): 4,89 mg Exposure time: 72 h Method: OECD Test Guideline 201		
Tox	icity to microorganisms	:	EC50 : 34,1 mg/l Exposure time: 12	20 h	
Toxi icity	icity to fish (Chronic tox-)	:	NOEC: >= 48 mg/l Exposure time: 28 d Species: Oryzias latipes (Orange-red killifish)		
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)		Exposure time: 21	l d magna (Water flea)	
•• Thio	omersal:				
	icity to fish	:	Exposure time: 96	ticulata (guppy)): > 0,01 - 0,1 mg/l 5 h on data from similar materials	
	icity to daphnia and other atic invertebrates	:	Exposure time: 48	agna (Water flea)): > 0,01 - 0,1 mg/l 3 h on data from similar materials	
Toxi plan	icity to algae/aquatic its	:	- 0,1 mg/l Exposure time: 96	chneriella subcapitata (green algae)): > 0,01 6 h on data from similar materials	
			47/00		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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11					
M-Factor (Acute aquatic tox- icity)		:	10		
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)			NOEC: > 0,001 - 0,01 mg/l Exposure time: 21 d Species: Daphnia sp. (water flea) Remarks: Based on data from similar materials		
M-Fac toxicit	ctor (Chronic aquatic y)	:	10		
12.2 Persi	stence and degradabil	lity			
<u>Com</u>	oonents:				
Malei	c acid:				
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	97 %	
Form	aldehyde:				
Biodegradability		:		91 %	
12.3 Bioad	cumulative potential				
<u>Comp</u>	oonents:				
Partiti	c acid: on coefficient: n- ol/water	:	log Pow: -1,3		
Form	aldehyde:				
	on coefficient: n- ol/water	:	log Pow: 0,35 Remarks: Calcula	ation	
12.4 Mobi	lity in soil				
No da	ta available				
12.5 Resu	Its of PBT and vPvB as	sse	ssment		
Produ	<u>uct:</u>				
Asses	sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	

0.1% or higher.



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12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good



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ΙΑΤΑ		: Not regulated as a dangero	us good		
14.4 Pack	ing group				
ADN		: Not regulated as a dangero	us good		
ADR		: Not regulated as a dangero	us good		
RID		: Not regulated as a dangero	Not regulated as a dangerous good		
IMDG	ì	: Not regulated as a dangero	Not regulated as a dangerous good		
ΙΑΤΑ	(Cargo)	: Not regulated as a dangero	Not regulated as a dangerous good		
ΙΑΤΑ	(Passenger)	: Not regulated as a dangero	Not regulated as a dangerous good		
14.5 Envii	ronmental hazards				
Not re	egulated as a dangero	s good			
-	ial precautions for u pplicable	er			
14.7 Marit	ime transport in bul	according to IMO instruments			
Rema	arks	: Not applicable for product a	is supplied.		

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3
		Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
		If you intend to use this product as tattoo ink, please contact your ven- dor.
		Thiomersal (Number on list 18) Formaldehyde (Number on list 77, 72, 28)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that de-	:	Not applicable



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plete the ozone layer					

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable tants (recast) Regulation (EU) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version
		are highlighted in the body of this document by two vertical
		lines.

Full text of H-Statements

H221	:	Flammable gas.
H300	:	Fatal if swallowed.
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.
H330	:	Fatal if inhaled.
H335	:	May cause respiratory irritation.
H341	:	Suspected of causing genetic defects.
H350	:	May cause cancer.
H360	:	May damage fertility or the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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H400 H410		: Very toxic to a : Very toxic to a	quatic life. quatic life with long lasting effects.
Full t	ext of other abbreviat	ions	
Aqua Carc. Eye I Flam Muta Repr. Skin SKin STO	tic Acute tic Chronic Dam. Gas Corr. Sens. TRE	 Long-term (ch Carcinogenicit Serious eye da Flammable ga Germ cell mut Reproductive Skin corrosion Skin sensitisat Specific target Specific target 	amage ses agenicity toxicity
AN 3 FOR- 2004, 2004, FOR- TWA	51 2011-12-06-1358 /37/EC / STEL /37/EC / TWA 2011-12-06-1358 / 2011-12-06-1358 /	from the risks at work Norway. Direc and chemical values).	related to exposure to carcinogens or mutagens tive on measures and limit values for physical factors in the work environment (biological limit pational Exposure limits posure limit posure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-



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tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet		ernal technical data, data from raw material SDSs, OECD Chem Portal search results and European Chemicals Agen- , http://echa.europa.eu/	
Classification of the mixtur	e:	Classification procedure:	
Skin Sens. 1	H31	Calculation method	

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN