



# MATERIAL SAFETY DATA SHEET

Conforms to Reg. (EU) 878/2020

Issued on 19/09/2018

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## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Code: F\_42  
Product name: SANICASA  
UFI: JFV2-A0NW-C005-XFP3

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

Identified Uses	Industrial	Professional	Consumer
hard surface cleaner	-	✓	✓

### Uses Advised Against

Do not use for uses other than those indicated

### 1.3. Details of the supplier of the safety data sheet

Name: NEW FADOR S.r.l.  
Full address: via Mario Calderara, 31  
District and Country: 25018 Montichiari (BS)  
Italia

Tel. +39 030961 243

www.newfador.it

e-mail address of the competent person  
responsible for the Safety Data Sheet

info@newfador.it

### 1.4. Emergency telephone number

For urgent inquiries refer to

NEW FADOR S.r.l.

+39 030961 243

(08.30 - 17.30)

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

### 2.2. Label elements

Hazard pictograms: --

Signal word: --

Hazard statements:

#### EUH208

Contains: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one  
May produce an allergic reaction.

Precautionary  
statements:

#### P101

If medical advice is needed, have product container or label at hand.

#### P102

Keep out of reach of children.

Ingredients (Regulation 648/2004)



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Less than 5%

Anionic surfactants

Perfumes

Preservation agents: METHYLCHLOROISOTHIAZOLINONE AND METHYLISOTHIAZOLINONE , BENZISOTHIAZOLINONE

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.  
The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>ETHANOL</b>		
INDEX 603-002-00-5	$4 \leq x < 4,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319 Eye Irrit. 2 H319: $\geq$ 50%
EC 200-578-6		
CAS 64-17-5		
REACH Reg. 01-2119457610-43		
<b>propan-2-ol</b>		
INDEX 603-117-00-0	$1 \leq x < 1,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
CAS 67-63-0		
REACH Reg. 01-2119457558-25		
<b>1,2-benzisothiazol-3(2H)-one</b>		
INDEX 613-088-00-6	$0 < x < 0,036$	Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 Skin Sens. 1A H317: $\geq$ 0,036%
EC 220-120-9		
CAS 2634-33-5		LD50 Oral: 450 mg/kg bw, LC50 Inhalation mists/powders: 0,21 mg/l/4h
<b>DIPHENYL ETHER</b>		
INDEX -	$0 < x < 0,05$	Repr. 1B H360Fd, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC 202-981-2		
CAS 101-84-8		



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REACH Reg. 01-2119472545-33

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**

INDEX 613-167-00-5

0 < x < 0,0015

Acute Tox. 2 H310,  
Acute Tox. 2 H330,  
Acute Tox. 3 H301,  
Skin Corr. 1C H314,  
Eye Dam. 1 H318,  
Skin Sens. 1A H317,  
Aquatic Acute 1 H400 M=100,  
Aquatic Chronic 1 H410 M=100,  
EUH071, Classification note according to Annex VI to the CLP Regulation: B  
Skin Corr. 1C H314: ≥ 0,6%,  
Skin Irrit. 2 H315: ≥ 0,06% - < 0,6%,  
Skin Sens. 1A H317: ≥ 0,0015%,  
Eye Dam. 1 H318: ≥ 0,6%,  
Eye Irrit. 2 H319: ≥ 0,06% - < 0,6%  
ATE Oral: 100 mg/kg,  
ATE Dermal: 50,001 mg/kg,  
LC50 Inhalation mists/powders: 0,171 mg/l/4h

EC 611-341-5

CAS 55965-84-9

## MORPHOLINE

INDEX 613-028-00-9

0 < x < 0,05

Flam. Liq. 3 H226,  
Acute Tox. 4 H302,  
Acute Tox. 4 H312,  
Acute Tox. 4 H332,  
Skin Corr. 1B H314,  
Eye Dam. 1 H318  
LD50 Oral: 1900 mg/kg,  
ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l

EC 203-815-1

CAS 110-91-8

REACH Reg. 01-2119496057-30

## toluene

INDEX 601-021-00-3

0 < x < 0,05

Flam. Liq. 2 H225,  
Repr. 2 H361d,  
Asp. Tox. 1 H304,  
STOT RE 2 H373,  
Skin Irrit. 2 H315,  
STOT SE 3 H336

EC 203-625-9

CAS 108-88-3

REACH Reg. 01-2119471310-51

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

No effects are expected that would require the implementation of special first aid measures. The following information is practical indications of correct behavior in case of contact with a chemical product, even if it is not dangerous.

If in doubt or if you experience symptoms, contact a doctor and show him this document.

In case of more serious symptoms, call 118 to obtain immediate medical help.

**EYES:** Remove contact lenses, if present, if the situation allows you to carry out the operation easily. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor immediately.

**SKIN:** Remove contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Consult a doctor. Avoid further contact with contaminated clothing.

**INGESTION:** Do not induce vomiting unless expressly authorized by your doctor. Do not give anything by mouth if the person is unconscious. Consult a doctor immediately.

**INHALATION:** Move the subject to fresh air, away from the accident site. Consult a doctor immediately.



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## Rescuer protection

It is a good practice for the rescuer who lends help to a subject, who has been exposed to a chemical or a mixture, to wear individual protective equipment. The nature of these protections depends on the danger of the substance or mixture, the method of exposure and the extent of the contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in case of possible contact with biological liquids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

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

No effect or symptoms known in normal use. In case of contact with the skin, awareness of the subjects may appear. In case of contact with eyes possible irritation, redness, swelling, burning, tearing. Accidental ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

In case of symptoms, both acute and delayed, consult a doctor. In the event of an accident or malaise, consult a doctor immediately (if possible to show the instructions for use or the safety card). Treatment: symptomatic treatment.

## Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye washing.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinction means

The extinction vehicles are the traditional ones: carbon dioxide, foam, dust and nebulized water.

#### Non -suitable extinction means

Do not use jets of water. Water is not effective to extinguish the fire, however, it can be used to cool the closed containers exposed to the flame by preventing bursts and explosions.

### 5.2. Special hazards arising from the substance or mixture

Dangers due to exposure in case of fire Overpressure can be created in the containers exposed to fire with a danger of explosion.

Avoid breathing combustion products. Combustion can produce gas and vapors potentially harmful to health such as carbon dioxide, carbon monoxide and irritating fumes.

#### 1,2-benzisothiazol-3(2H)-one

In case of fire, toxic gases such as nitrogen oxide (NOX), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>) can develop.

### 5.3. Advice for firefighters

#### General information

Cool the containers with water jets to avoid the decomposition of the product and the development of substances potentially dangerous for health. Always wear the equipment complete with fire protection. Collect the shutdown waters that must not be downloaded in the sewers. Dispose of the contaminated water used for the extinction and residue of the fire according to the current regulations.

#### EQUIPMENT

Normal clothing for the fight against fire, such as an open circuit compressed air car rescue (EN 137), full anti -fiamema (EN469), anti -fiamma gloves (EN 659) and boots for firefighters (I have A29 or A30).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For those who do not intervene directly

Block the loss if there is no danger.

Wear adequate protection devices (including the individual protective equipment referred to in section 8 of the security data sheet)



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in order to prevent contaminations of the skin, eyes and personal clothing. These indications are valid for both the employees processes that for emergency interventions.

Remove the unnecessary staff.

6.1.2. For those who intervene directly

Wear adequate protection devices (including the individual protective equipment referred to in section 8 of the security data sheet)

in order to prevent contaminations of the skin, eyes and personal clothing. These indications are valid for both the employees processes that for emergency interventions.

Use an antideflagrant device. Eliminate any source of fireproof (cigarettes, flames, sparks, etc.) or heat from the area where the loss occurred.

## 6.2. Environmental precautions

Prevent penetration in the soil/subsoil. Prevent the outflow in surface waters or in the sewage network.

Keep the contaminated washing water and eliminate it.

## 6.3. Methods and material for containment and cleaning up

Containment: arrest the loss if you can do it without taking risks. Do not touch or trample the poured material. To reduce vapors you can use a foam that suppresses i

Vapors. Do not pour into the exhausts, in the sewers, in the ditches and in the waterways. Absorbing with earth, sand or other non -fuel material and transfer to containers for a subsequent disposal. Collect the substance absorbed in closed containers. Evaluate the compatibility of the container to be used with the product, checking section 10.

Reclamation: avoid the accumulation of electrostatic charges. Close with a barrier. Dry with helpless absorbent material. Take and transfer to duly labeled containers. This material and the relative container must be disposed of safely and in accordance with the provisions of point 13.

## 6.4. Reference to other sections

Any information regarding individual protection and disposal is shown to sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat, hot surfaces, sparks, free flames or other sources of ignition. Use individual protective equipment. Avoid breathing vapors or mists. Handle in compliance with good hygiene and industrial safety standards. Do not eat, nor drink, nor smoking during use. Avoid contact with the skin, eyes or clothing. Without adequate ventilation, vapors can accumulate in the ground and set fire even at a distance, if triggered, with a danger of returning flame. Avoid the accumulation of electrostatic charges. Connect to a soil socket in the case of large packaging during labor operations and wearing antistatic shoes. The strong agitation and vigorous scrolling of the liquid in the pipes and equipment can cause formation and accumulation of electrostatic charges. To avoid the danger of fire and burst, never use compressed air in handling. Open the containers with caution, because they can be under pressure. Avoid the dispersion of the product in the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the closed containers, in a well -ventilated place, sheltered from direct sunlight. Store in a cool and well -ventilated place, far from heat sources, free flames, sparks and other ignition sources. Store the containers away from any incompatible materials, checking section 10.

### 7.3. Specific end use(s)

Refer to the final uses identified in the subsection 1.2 of this form.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:



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BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.28 от 2 Април 2024г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 18. října 2023, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe
DNK	Danmark	BEK nr 291 af 19/03/2024 (Historisk) Bekendtgørelse om grænseværdier for stoffer og materialer (kemiske agenser) i arbejdsmiljøet
ESP	España	Límites de exposición profesional para agentes químicos en España 2024
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSDMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία ``»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelmére!
HRV	Hrvatska	PRAVILNIK O IZMJENAMA I DOPUNAMA PRAVILNIKA O ZAŠTITI RADNIKA OD IZLOŽENOSTI OPASNIM KEMIČALIJAMA NA RADU, GRANIČNIM VRIJEDNOSTIMA IZLOŽENOSTI I BIOLOŠKIM GRANIČNIM VRIJEDNOSTIMA
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. 10. april 2024 kl. 13.55
NLD	Nederland	Regeling van de Minister van Sociale Zaken en Werkgelegenheid van 13 mei 2024, nr. 2024-0000092805, tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2022/431
PRT	Portugal	Decreto-Lei n.º 102/2024, de 4 de dezembro. Sumário: Transpõe para a ordem jurídica interna a Diretiva (UE) 2022/431, relativa à proteção dos trabalhadores contra riscos ligados à exposição a agentes cancerígenos ou mutagénicos e procede à quarta alteração
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 24 czerwca 2024 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	HOTĂRÂRE nr. 179 din 28 februarie 2024 pentru modificarea și completarea Hotărârii Guvernului nr. 1.093/2006 privind stabilirea cerințelor minime de securitate și sănătate pentru protecția lucrătorilor împotriva riscurilor legate de expunerea la agenți ca
SWE	Sverige	Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön
SVK	Slovensko	121_2024 Z. z. Nariadenie vlády o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym, mutagénnym alebo reprodukčne toxickým faktorom pri práci
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim, mutagenim ali reprotoksičnim snovem pri delu. Ljubljana, četrtek 4. 4. 2024
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	ACGIH	ACGIH 2025

## ETHANOL

### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	1000			
TLV	CZE	1000		3000	
AGW	DEU	960	500	1920	1000
MAK	DEU	960	500	1920	1000
TLV	DNK	1900	1000		
VLA	ESP			1910	1000
VLEP	FRA	1900	1000	9500	5000
HTP	FIN	1900	1000	2500	1300
TLV	GRC	1900	1000		



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AK	HUN	1900		7600	
GVI/KGVI	HRV	1900	1000		
TLV	NOR	950	500		
TGG	NLD	260		1900	
NDS/NDSch	POL	1900			
NGV/KGV	SWE	1000	500	1900	1000
NPEL	SVK	960	500	1920	
WEL	GBR	1920	1000		
ACGIH				1884	1000

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	36	mg/kg
Normal value for marine water sediment	2,9	mg/kg
Normal value for water, intermittent release	2,75	mg/l
Normal value of STP microorganisms	580	mg/l
Normal value for the food chain (secondary poisoning)	0,72	mg/kg
Normal value for the terrestrial compartment	0,63	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				114 mg/m3	1900 mg/m3			950 mg/m3
Skin								343 mg/kg bw/d

## propan-2-ol

### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	980		1225		
TLV	CZE	500	200	1000	400	
AGW	DEU	500	200	1000	400	
MAK	DEU	500	200	1000	400	
TLV	DNK	490	200			
VLA	ESP	500	200	1000	400	
VLEP	FRA			980	400	
TLV	GRC	980	400	1225	500	
AK	HUN	500		1000		SKIN
GVI/KGVI	HRV	999	400	1250	500	
TLV	NOR	245	100			
TGG	NLD	650				
NDS/NDSch	POL	900		1200		SKIN
TLV	ROU	200	81	500	203	



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NGV/KGV	SWE	350	150	600 (C)	250 (C)
NPEL	SVK	500	200	1000	400
MV	SVN	500	200	2000	800
WEL	GBR	999	400	1250	500
ACGIH		492	200	983	400

## Predicted no-effect concentration - PNEC

Normal value in fresh water	140,9	mg/l
Normal value in marine water	140,9	mg/l
Normal value for fresh water sediment	552	mg/kg
Normal value for water, intermittent release	140,9	mg/l
Normal value of STP microorganisms	2251	mg/l
Normal value for the food chain (secondary poisoning)	160	mg/kg
Normal value for the terrestrial compartment	28	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				26 mg/kg bw/d				
Inhalation				89 mg/m3		1000 mg/m3		500 mg/m3
Skin				319 mg/kg bw/d				888 mg/kg bw/d

## DIPHENYL ETHER

### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	7,1	1	7,1	1	INHAL
MAK	DEU	7,1	1	7,1	1	INHAL
TLV	DNK	7	1	14	2	
VLA	ESP	7,1	1	14,2	2	
VLEP	FRA	7	1	14	2	
HTP	FIN	7	1	14	2	
AK	HUN	7		14		
VLEP	ITA	7	1	14	2	
TLV	NOR	7	1	14	2	
TGG	NLD	7	1	14	2	
NDS/NDSch	POL	7	1	14	2	
TLV	ROU	7	1	14	2	
NGV/KGV	SWE	7	1	14	2	
WEL	GBR	7	1	14	2	
OEL	EU	7	1	14	2	
ACGIH			1		2	

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0017	mg/l
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Normal value in marine water	0,00017	mg/l
Normal value for fresh water sediment	0,345	mg/kg
Normal value for marine water sediment	0,0345	mg/kg
Normal value for the terrestrial compartment	0,0681	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					14 mg/m3		9,68 mg/m3	59 mg/m3
Skin								58,3 mg/kg bw/d

## reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	DEU	0,2		0,4		INHAL
NDS/NDSch	POL	0,2		0,4		

## MORPHOLINE

### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	36	10	72	20	
TLV	CZE	35	9,66	70	19,32	
AGW	DEU	18	5	18	5	SKIN
MAK	DEU	36	10	72	20	
TLV	DNK	36	10			SKIN E
VLA	ESP	36	10	72	20	
VLEP	FRA	36	10	72	20	
HTP	FIN	36	10	72	20	SKIN
TLV	GRC	36	10	72	20	
AK	HUN	36		72		
VLEP	ITA	36	10	72	20	SKIN
TLV	NOR	36	10			SKIN
TGG	NLD	36		72		SKIN
VLE	PRT	36	10	72	20	
NDS/NDSch	POL	36		72		SKIN
TLV	ROU	36	10	72	20	
NGV/KGV	SWE	35	10	72	20	
NPEL	SVK	36	10	72	20	
MV	SVN	36	10	72	20	SKIN
WEL	GBR	36	10	72	20	SKIN
OEL	EU	36	10	72	20	
ACGIH		71	20			SKIN



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## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,163	mg/l
Normal value in marine water	0,016	mg/l
Normal value for fresh water sediment	1,83	mg/kg
Normal value for marine water sediment	0,183	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,269	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,3 mg/kg bw/d				
Inhalation					72 mg/m3		36 mg/m3	
Skin								0,84 mg/kg bw/d

## toluene

### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	190	50	380	100	SKIN
MAK	DEU	190	50	380	100	
TLV	DNK	94	25	188	50	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
HTP	FIN	81	25	380	100	SKIN
AK	HUN	190		380		
VLEP	ITA	192	50			SKIN
TLV	NOR	94	25			SKIN
TGG	NLD	150	39	384	100	
NDS/NDSch	POL	100		200		
TLV	ROU	192	50	384	100	SKIN
NGV/KGV	SWE	192	50	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
ACGIH			20			

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,68	mg/l
Normal value in marine water	0,68	mg/l
Normal value for fresh water sediment	16,39	mg/kg/d
Normal value for marine water sediment	16,39	mg/kg/d
Normal value for marine water, intermittent release	0,68	mg/l
Normal value of STP microorganisms	13,61	mg/l
Normal value for the terrestrial compartment	2,89	mg/kg

## Health - Derived no-effect level - DNEL / DMEL



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Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,69 mg/kg bw/d				
Inhalation	188,5 mg/m3	188,5 mg/m3	18,9 mg/m3	18,9 mg/m3	377 mg/m3	377 mg/m3	75,37 mg/m3	75,37 mg/m3
Skin			0,1 mg/cm <sup>2</sup>	75 mg/kg bw/d			0,188 mg/cm <sup>2</sup>	150 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

## 8.2. Exposure controls

Generic hygiene practice at work involves certain measures (for example, shower and change of clothes at the end of the work shift) in order to avoid Any type of third party contamination and appropriate cleaning practices (i.e. regular cleaning with adequate cleaning devices), do not eat and smoke in the workplace. In general, inhalation and ingestion must be avoided. Unless different indications, shoes and work clothing must be worn certificates. Contaminated work clothing must not be brought out of the workplace. Ensure good general ventilation in the place of and effective local aspiration or other technical equipment in order to maintain levels in the air below the exposure limit values. In the absence of adequate ventilation, automatic indicators and warnings to report the achievement of the concentrations or dangerous conditions. If this is not possible, frequent checks and measurements must be performed. For the choice of personal protective equipment, ask for advice from their DPI suppliers. Individual protection devices must report the EC marking certifying their compliance with current regulations.

### Hands protection

Protect your hands with category III work gloves (Report EN 374). Recommended materials: nitrilic rubber, pvc, butyl rubber, neoprene. Protection class: 6 (permeation time greater than 480 minutes according to the EN 374 standard). Speaking of the recommended material:  $\geq 0.4$  mm During the identification phase of the relevant material and the relative thickness to be used, it is highly recommended to compare directly with the DPI producer to evaluate the actual protection on the basis of use and the duration of use. For the definitive choice of the material of work gloves, compatibility, degradation, breakage and permeation must be considered. In the case of preparing, the resistance of work gloves to chemical agents must be verified before use as they are not predictable. Gloves They have a wear time that depends on the duration and the use mode.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

### RESPIRATORY PROTECTION

Normally no respiratory protective device is required. In case of insufficient ventilation, exceeding the limit values in the workplace, excessive olfactory disturbance or in the presence of dust, aerosols, mists and smoke, it is necessary to use a respiratory protection mask independent of ambient air or a respiratory protection mask with filter or combined filters which must be chosen according to the EN 141 standard.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Properties**  
Appearance  
Colour

**Value**  
liquid  
pink

**Information**  
Temperature: 20 °C  
Temperature: 20 °C



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Odour	characteristic	Method: internal
Melting point / freezing point	0 °C	Method: literature data Substance: WATER
Initial boiling point	100 °C	Method: literature data Substance: WATER Initial boiling point: 100 °C
Flammability	not available	Reason for missing data: The substance/mixture is not flammable
Lower explosive limit	not available	Reason for missing data: This property is not relevant to the safety and classification of this product.
Upper explosive limit	not available	Reason for missing data: This property is not relevant to the safety and classification of this product.
Flash point	> 100 °C	Method: ASTM D93-19
Auto-ignition temperature	not available	Reason for missing data: This property is not relevant to the safety and classification of this product.
Decomposition temperature	not available	Reason for missing data: It only applies to authoritative substances and mixtures, organic peroxides and other substances and mixtures that they can decompose
pH	5,5 - 7,5	Method: internal method Concentration: 100 % Temperature: 20 °C
Kinematic viscosity	<30 mm <sup>2</sup> /sec	Method: internal Temperature: 20 °C
Solubility	Complete in water	Method: internal Temperature: 20 °C
Partition coefficient: n-octanol/water	not available	Reason for missing data: does not apply to inorganic and ionic liquids and, as a rule, it does not apply to blends
Vapour pressure	0,02 Atm	Method: datum of literature Substance: WATER Vapour pressure: 17,5 mmHg Temperature: 20 °C
Density and/or relative density	0,985	Method: internal Temperature: 20 °C
Relative vapour density	0,0006 kg/dm <sup>3</sup>	Method: Literature data Substance: WATER Temperature: 0 °C

## Particle characteristics

### Median equivalent diameter

Remark: It only applies to solids

### Size distribution

Remark: It only applies to solids

### Dustiness

Remark: It only applies to solids

### Specific surface area

Remark: It only applies to solids

### Shape

Remark: It only applies to solids

## 9.2. Other information



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## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

Acid/alkaline reserve	not available	Remark: Tests on the buffer capacity of the substance/mixture was not performed.
Miscibility	not available	Remark: See section 9.1 Solubility
Explosive properties	not available	Reason for missing data: Absent chemical groups associated with explosive properties in accordance with the provisions of Annex I, Part 2, chap. 2.1.4.3 of Reg. (EC) 1272/2008 - CLP
Oxidising properties	not available	Reason for missing data: Absent requirements related to the presence of atoms or chemical bonds associated with oxidizing properties in the molecules of the components according to Annex I, Part 2, 2.13.4 Reg. (CE) 1272/2008

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular reaction dangers with other substances in normal conditions of use.

#### MORPHOLINE

On contact with: strong oxidising agents, reducing agents, strong acids, strong bases. May develop: heat.

#### toluene

Avoid exposure to: light.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

Vapors can form explosive mixtures with air.

#### ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

#### toluene

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

### 10.4. Conditions to avoid

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any source of ignition.



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## ETHANOL

Avoid exposure to: sources of heat, naked flames.

### 10.5. Incompatible materials

Strong alkalis, strong acids, oxidizing agents. Don't mix with other chemicals.

### 10.6. Hazardous decomposition products

For thermal decomposition or in the event of a fire you can free gases and vapors potentially harmful to health as carbon dioxide, carbon monoxide and irritating fumes.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

#### Metabolism, toxicokinetics, mechanism of action and other information

The mixture as such has not been subjected to specific tests, therefore no experimental evaluations are available; please refer to the information in this subsection.

#### Information on likely routes of exposure

The likely routes of exposure depend on the use of the mixture. Usually dermal exposure is the most likely, rarely inhalation and oral.

For the effects, please refer to the other subsections in this section and to section 4 of this sheet.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

The mixture as such has not been subjected to specific tests, therefore no experimental evaluations are available; please refer to the other subsections in this section and to section 4 of this sheet.

#### Interactive effects

Under normal conditions of use no interactive effects are currently expected.

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

## ETHANOL

LD50 (Oral):	> 5000 mg/kg Rat
LC50 (Inhalation vapours):	117 mg/l/4h Rat

## propan-2-ol

LD50 (Dermal):	13900 mg/kg bw Rabbit
LD50 (Oral):	5840 mg/kg Rat
LC50 (Inhalation vapours):	> 25 mg/l/4h Rat

## 1,2-benzisothiazol-3(2H)-one

LD50 (Dermal):	> 2000 mg/kg bw OECD Guideline 402 - rat
LD50 (Oral):	450 mg/kg bw
LC50 (Inhalation mists/powders):	0,21 mg/l/4h

## DIPHENYL ETHER

LD50 (Dermal):	> 7940 mg/kg rabbit
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LD50 (Oral): 2830 mg/kg rat

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
LD50 (Dermal): 87,12 mg/kg bw rat; OECD 402  
LD50 (Oral): 66 mg/kg bw rat; OECD 401  
LC50 (Inhalation mists/powders): 0,171 mg/l/4h rat; OECD 403

## MORPHOLINE

LD50 (Dermal): 500 mg/kg Rabbit; OECD 402  
LD50 (Oral): 1900 mg/kg Rat; OECD 401  
LC50 (Inhalation vapours): 8 mg/l/4h Rat; OECD 403

## toluene

LD50 (Dermal): > 5000 mg/kg bw Rabbit  
LD50 (Oral): > 5000 mg/kg bw Rat  
LC50 (Inhalation vapours): > 20 mg/l/4h Rat

## SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

## ETHANOL

It does not meet the classification criteria for this hazard class

## propan-2-ol

It does not meet the classification criteria for this hazard class.

## 1,2-benzisothiazol-3(2H)-one

Skin irritant, Category 2

## DIPHENYL ETHER

It does not meet the classification criteria for this hazard class.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Causes severe skin burns and serious eye damage.

## MORPHOLINE

Method: OECD 404  
Reliability (Klimisch score): 2  
Species: rabbit (Vienna White)  
Results: corrosive  
Source: ECHA CHEM 04/26

## toluene

Method: EU Method B.4  
Reliability (Klimisch score): 1  
Species: rabbit (New Zealand White)  
Results: irritating  
Source: ECHA CHEM 02/26

## SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

## ETHANOL

Method: OECD 405  
Reliability (Klimisch score): 1  
Species: rabbit  
Routes of exposure: ocular  
Results: Irritating to eyes  
H319 cat. >= 50  
Source: ECHA CHEM 04/26



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1,2-benzisothiazol-3(2H)-one  
Causes serious eye damage, Category 1

## DIPHENYL ETHER

Method: No guidelines available

Reliability (Klimisch score):2

Species: rabbit

Results: Category 2 eye irritant

ECHA CHEM 02/26

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  
Causes severe skin burns and serious eye damage.

## MORPHOLINE

Method: OECD 405

Reliability (Klimisch score): 1

Species: rabbit

Results: corrosive

ECHA CHEM 04/26

## toluene

It does not meet the classification criteria for this hazard class

## RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

## ETHANOL

It does not meet the classification criteria for this hazard class

## propan-2-ol

It does not meet the classification criteria for this hazard class.

## 1,2-benzisothiazol-3(2H)-one

The substance is classified as skin sensitiser, category 1A.

## DIPHENYL ETHER

It does not meet the classification criteria for this hazard class.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

The substance is classified as skin sensitiser, category 1A.

## MORPHOLINE

It does not meet the classification criteria for this hazard class.

## toluene

It does not meet the classification criteria for this hazard class

## GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

## ETHANOL

It does not meet the classification criteria for this hazard class

## propan-2-ol

It does not meet the classification criteria for this hazard class.



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

It does not meet the classification criteria for this hazard class.

DIPHENYL ETHER

It does not meet the classification criteria for this hazard class.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

MORPHOLINE

It does not meet the classification criteria for this hazard class.

toluene

It does not meet the classification criteria for this hazard class

## CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ETHANOL

It does not meet the classification criteria for this hazard class

propan-2-ol

It does not meet the classification criteria for this hazard class.

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

It does not meet the classification criteria for this hazard class.

DIPHENYL ETHER

It does not meet the classification criteria for this hazard class.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

MORPHOLINE

It does not meet the classification criteria for this hazard class.

toluene

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

ETHANOL

It does not meet the classification criteria for this hazard class

propan-2-ol

It does not meet the classification criteria for this hazard class.

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

It does not meet the classification criteria for this hazard class.

DIPHENYL ETHER

Classified as reproductive toxicant, Category 1, H360fd, May damage fertility and the unborn child

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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



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## MORPHOLINE

It does not meet the classification criteria for this hazard class.

### Adverse effects on sexual function and fertility

#### DIPHENYL ETHER

Method: OECD 443

Reliability (Klimisch score): 1

Species: rat CrI:CD(SD)

Routes of exposure: oral

Results: 200 mg/kg bw/day NOAEL

ECHA CHEM 02/2026

### Adverse effects on development of the offspring

#### DIPHENYL ETHER

Method: OECD Guideline 414

Reliability (Klimisch score): 1

Species: Rat (New Zealand White)

Routes of exposure: oral

Results: NOAEC 651 mg/kg bw/day

ECHA CHEM 02/26

#### toluene

Method: OECD Guideline 414

Reliability (Klimisch score): 2

Species: rat (Himalayan)

Routes of exposure: hyaltory

Results: NOAEC 2.261 mg/m<sup>3</sup>

Source: ECHA CHEM 02/26

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

## ETHANOL

It does not meet the classification criteria for this hazard class

#### propan-2-ol

Category 3 narcotic effects: May cause drowsiness or dizziness.

#### 1,2-benzisothiazol-3(2H)-one

It does not meet the classification criteria for this hazard class.

#### DIPHENYL ETHER

It does not meet the classification criteria for this hazard class.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

## MORPHOLINE

It does not meet the classification criteria for this hazard class.

#### toluene

Category 3 narcotic effects: May cause drowsiness or dizziness.

### Route of exposure

propan-2-ol



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inhalation

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ETHANOL

It does not meet the classification criteria for this hazard class

propan-2-ol

It does not meet the classification criteria for this hazard class.

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

It does not meet the classification criteria for this hazard class.

DIPHENYL ETHER

It does not meet the classification criteria for this hazard class

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

MORPHOLINE

It does not meet the classification criteria for this hazard class.

toluene

Method: EU Method B.26

Reliability (Klimisch score): 1

Species: rat

Routes of exposure: oral

Results: NOAEL= 625 mg/kg/d

ECHA CHEM 03/26

## ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

ETHANOL

It does not meet the classification criteria for this hazard class

propan-2-ol

It does not meet the classification criteria for this hazard class.

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

It does not meet the classification criteria for this hazard class.

DIPHENYL ETHER

It does not meet the classification criteria for this hazard class

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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

MORPHOLINE

It does not meet the classification criteria for this hazard class.

toluene

It does not meet the classification criteria for this hazard class



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## 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

#### ETHANOL

LC50 - for Fish	> 11200 mg/l/96h Pimephales promelas; US EPA method E03-05
EC50 - for Crustacea	> 12300 mg/l/48h Daphnia Magna
EC50 - for Algae / Aquatic Plants	> 275 mg/l/72h Chlorella vulgaris
Chronic NOEC for Fish	250 mg/l/120h Danio rerio; OECD 212
Chronic NOEC for Crustacea	9,6 mg/l/10d Ceripdaphnia dubia
Chronic NOEC for Algae / Aquatic Plants	11,5 mg/l

#### propan-2-ol

LC50 - for Fish	9640 mg/l/96h Pimephales promelas; OECD 203
EC50 - for Crustacea	> 10000 mg/l/24h Daphnia magna; OECD 202

#### 1,2-benzisothiazol-3(2H)-one

LC50 - for Fish	2,15 mg/l/96h EPA 540/9-85-006 - Cyprinodon variegatus
EC50 - for Crustacea	2,9 mg/l/48h OECD Guideline 202 - Daphnia magna
EC50 - for Algae / Aquatic Plants	0,11 mg/l/72h OECD Guideline 201 - Raphidocelis subcapitata
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l OECD Guideline 201 - Raphidocelis subcapitata

#### DIPHENYL ETHER

LC50 - for Fish	4,2 mg/l/96h Danio rerio
EC50 - for Crustacea	1,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,455 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Algae / Aquatic Plants	0,24 mg/l Pseudokirchneriella subcapitata

#### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

LC50 - for Fish	0,19 mg/l/96h EPA OPP 72-1 - Oncorhynchus mykiss
EC50 - for Crustacea	0,16 mg/l/48h EPA OPP 72-2 - Daphnia magna
EC50 - for Algae / Aquatic Plants	0,037 mg/l/72h OECD Guideline 201 - Skeletonema costatum
Chronic NOEC for Fish	0,02 mg/l OECD Guideline 210 - Danio rerio
Chronic NOEC for Crustacea	0,282 mg/l EPA OPP 72-4 - Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,004 mg/l OECD Guideline 201 - Skeletonema costatum

#### MORPHOLINE



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LC50 - for Fish	> 100 mg/l/96h <i>Oryzias latipes</i>
EC50 - for Crustacea	45 mg/l/48h <i>Daphnia magna</i> , OECD 202
EC50 - for Algae / Aquatic Plants	65 mg/l/72h <i>Pseudokirchneriella subcapitata</i> , OECD 201
EC10 for Crustacea	8,134 mg/l/21d <i>Daphnia magna</i> , OECD 211
EC10 for Algae / Aquatic Plants	31 mg/l/72h <i>Pseudokirchneriella subcapitata</i> , OECD 201

## toluene

LC50 - for Fish	5,5 mg/l/96h <i>Oncorhynchus kisutch</i>
EC50 - for Crustacea	3,78 mg/l <i>Ceriodaphnia dubia</i>
EC50 - for Algae / Aquatic Plants	134 mg/l/72h
Chronic NOEC for Fish	1,4 mg/l <i>Oncorhynchus kisutch</i>
Chronic NOEC for Crustacea	0,74 mg/l <i>Ceriodaphnia dubia</i>
Chronic NOEC for Algae / Aquatic Plants	10 mg/l/72 h <i>Skeletonema costatum</i>

## 12.2. Persistence and degradability

### ETHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

### propan-2-ol

Solubility in water	1000000 mg/l 25°C
Rapidly degradable	

Isopropyl alcohol: aerobic, 53%. Rapidly biodegradable. Location exposure time: 5 d, activated sludge, domestic, not adapted (literature)

### 1,2-benzisothiazol-3(2H)-one

Solubility in water	1288 mg/l OECD Guideline 105
NOT rapidly degradable	

### DIPHENYL ETHER

Rapidly degradable	76% - 28d - OCSE criteria
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### reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Solubility in water	3000000 mg/l OECD Guideline 105
Inherently degradable	79,4%; 5d; OECD 301B

### MORPHOLINE

Solubility in water	1000 g/l
Rapidly degradable	93%; 25D; EU Method C.4-B

## toluene

Solubility in water	580 mg/l
Rapidly degradable	



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## 12.3. Bioaccumulative potential

### ETHANOL

Partition coefficient: n-octanol/water -0,35

### propan-2-ol

Partition coefficient: n-octanol/water 0,05 25°C

Isopropyl alcohol: no bioconcentration expected (log octanol/water partition coefficient <= 4)

### 1,2-benzisothiazol-3(2H)-one

Partition coefficient: n-octanol/water < 0,7 20°C

BCF 6,62

### DIPHENYL ETHER

Partition coefficient: n-octanol/water 4,21

BCF 196

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Partition coefficient: n-octanol/water 0,326 24°C

### MORPHOLINE

Partition coefficient: n-octanol/water -2,55 25°C; pH 7

BCF < 2,8 l/kg

### toluene

Partition coefficient: n-octanol/water 2,73 Log Kow

BCF 94

## 12.4. Mobility in soil

### ETHANOL

Partition coefficient: soil/water 2,75

### 1,2-benzisothiazol-3(2H)-one

Partition coefficient: soil/water 0,969

### DIPHENYL ETHER

Partition coefficient: soil/water 3,3

## 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## 12.6. Endocrine disrupting properties



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Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

## 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Before disposal, it is always recommended to classify waste according to applicable national legislation.

Indicatively, the codes of the European waste list can be:

20 01 29\* - detergents containing dangerous substances

15 01 10\* - packaging containing residues of dangerous substances or contaminated by such substances

The release of waste in the sewer is strongly not recommended. The disposal of this product, solutions and any by-product must be carried out by always certifying the indications of the law on the protection of the environment and on the disposal of waste and the requirements of each relevant local authority.

Do not get rid of the product and the container except with the necessary precautions. Empty containers can contain product residues. Avoid the dispersion and outflow of material possibly spilled and the contact with soil, waterways, exhausts and sewers.

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number or ID number

not applicable

### 14.2. UN proper shipping name

not applicable

### 14.3. Transport hazard class(es)

not applicable

### 14.4. Packing group

not applicable

### 14.5. Environmental hazards

not applicable

### 14.6. Special precautions for user

not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant



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## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

#### Product

Point 40

#### Contained substance

Point	75	1,2-benzisothiazol-3(2H)-one
Point	75	ETHANOL REACH Reg.: 01-2119457610-43
Point	75	propan-2-ol REACH Reg.: 01-2119457558-25
Point	75	MORPHOLINE REACH Reg.: 01-2119496057-30
Point	75	HYDROGEN 3,6-BIS(DIETHYLAMINO)-9-(2,4-DISULPHONATOPHENYL)XANTHYLIUM, SODIUM SALT
Point	75	CI 16255 REACH Reg.: 01-2120033342-71
Point	75	linalool REACH Reg.: 01-2119474016-42

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

#### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

#### Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Information not available

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



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## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 1B	Reproductive toxicity, category 1B
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1A	Skin sensitization, category 1A
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361d	Suspected of damaging the unborn child.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



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EUH071

Corrosive to the respiratory tract.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)
28. Regulation (EU) 2024/2865



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- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

- ECHA CHEM website (ECHA Chemicals Database)

Note for the user:

The information contained in this sheet is based on the knowledge available to us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document should not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. We do not assume responsibility for improper use.

Provide adequate training to personnel responsible for using chemical products.

#### CLASSIFICATION CALCULATION METHODS

Chemical-physical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 05 / 08 / 09 / 11 / 12 / 13 / 15 / 16.