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

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Ceresit IN 56 for kitchen&bath

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

1.1. Product identifier
Ceresit IN 56 for kitchen&bath

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

1.3. Details of the supplier of the safety data sheet
Henkel Bautechnic (Ukraine)
Vyshhorod, Novopromyslova St. 2
07302 Kyiv region

Ukraine

Phone: +380 (800) 308 405

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

1.4. Emergency telephone number
0-800-308-405 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains 1,2-Бензизотиазолин-3-он

Смесь изотиазолинонов (C(M)IT/MIT (3:1))
Октил-3(2H)изотиазолон, 2-
2-метил-2H-изотиазол-3-он

Signal word:	Warning
Hazard statement:	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Supplemental information	EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Precautionary statement: Prevention	P273 Avoid release to the environment. P280 Wear protective gloves.
Precautionary statement: Response	P391 Collect spillage.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥0,1% and are identified as ED or PBT/vPvB on the REACH Candidate list or according to BPR or PPP:

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

Hazardous components CAS-No. EC Number UA REACH-Reg. No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Оксид хрома (III) 1308-38-9 215-160-9	1- < 5 %			EU OEL
Пропилидинтирметанол 77-99-6 201-074-9	0,1- < 1 %	Repr. 2, H361fd		
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	0,01- < 0,1 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 STOT RE 1, H372 Skin Corr. 1B, H314 Acute Tox. 4, H302 Eye Dam. 1, H318	M acute = 10 M chronic = 1	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	0,01- < 0,1 %	Skin Corr. 1B, H314 Acute Tox. 4, H302 STOT RE 2, Oral, H373 Aquatic Acute 1, H400 STOT SE 3, H335 Asp. Tox. 1, H304 Eye Dam. 1, H318 Aquatic Chronic 2, H411	M acute = 10	
тербутрин 886-50-0 212-950-5	0,01- < 0,1 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302 Skin Sens. 1B, H317 PMT EUH450	Skin Sens. 1B; H317; C >= 3 % ===== M acute = 100 M chronic = 100 ===== oral:ATE = 1.000 mg/kg	
1,2-Бензизотиазолин-3-он 2634-33-5 220-120-9	0,005- < 0,05 % (50 ppm- < 500 ppm)	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330	Skin Sens. 1A; H317; C >= 0,036 % ===== M acute = 1 M chronic = 1 ===== oral:ATE = 450 mg/kg inhalation:ATE = 0,21 mg/l;dust/mist	
Октил-3(2H)изотиазолон, 2- 26530-20-1 247-761-7	0,0025- < 0,025 % (25 ppm- < 250 ppm)	Acute Tox. 2, H330 Acute Tox. 3, H311 Skin Corr. 1, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Acute Tox. 3, H301 Aquatic Chronic 1, H410 Eye Dam. 1, H318	Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 M chronic = 100 ===== dermal:ATE = 311 mg/kg oral:ATE = 125 mg/kg inhalation:ATE = 0,27 mg/l;dust/mist	
Пиритион цинка 13463-41-7 236-671-3	0,0025- < 0,025 % (25 ppm- < 250 ppm)	Aquatic Acute 1, H400 Acute Tox. 2, H330 Repr. 1B, H360D Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Chronic 1, H410 Acute Tox. 3, H301	M acute = 1.000 M chronic = 10 ===== oral:ATE = 221 mg/kg inhalation:ATE = 0,14 mg/l;dust/mist	
Смесь изотиазолинонов (C(M)IT/MIT (3:1)) 55965-84-9	0,0015- < 0,015 % (15 ppm- < 150 ppm)	Aquatic Chronic 1, H410 Skin Corr. 1C, H314 Acute Tox. 2, H310 Acute Tox. 3, H301	Skin Irrit. 2; H315; C 0,06 - < 0,6 % Skin Corr. 1C; H314; C >= 0,6 % Eye Irrit. 2; H319; C 0,06 - < 0,6	

		Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 Skin Sens. 1A, H317	% Eye Dam. 1; H318; C >= 0,6 % Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 M chronic = 100	
2-метил-2H-изотиазол-3-он 2682-20-4 220-239-6	0,0001- < 0,0015 % (1 ppm- < 15 ppm)	Acute Tox. 2, H330 Skin Sens. 1A, H317 Aquatic Chronic 1, H410 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Eye Dam. 1, H318 Acute Tox. 3, H311 Acute Tox. 3, H301	Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 10 M chronic = 1	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

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

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

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

Ingestion:
Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed
May cause an allergic skin reaction.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
carbon dioxide, foam, powder, water spray jet, fine water spray

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

5.2. Special hazards arising from the substance or mixture
In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
Danger of slipping on spilled product.

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

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

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid skin and eye contact.

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

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool, frost-free place.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)
Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Ukraine

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [Carbon dusts: coke from coal, pitch, oil, shale Silicate-containing dust, silicates, aluminosilicates: asbestos cement Carbon dusts: anthracite containing up to 5% free SiO2 Silicate-containing dust, silicates, aluminosilicates: concrete, olivine, apatite, fosterite, clay, kaolin fireclay]		6	Time Weighted Average (TWA):		UA OELA
Limestone 1317-65-3 [Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content from 10% to 20%]		1	Short Term Exposure Limit (STEL):		UA OELA
Limestone 1317-65-3 [Carbon dusts: other mined coals and coal dusts containing up to 5% free SiO2 Silicate-containing dust, silicates, aluminosilicates: asbestos groceries, asbestos rubber]		10	Time Weighted Average (TWA):		UA OELA
Limestone 1317-65-3 [Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content from 10% to 20% Silicate-containing dust, silicates, aluminosilicates: natural asbestos (chrysotile, anthophyllite, actinolite, tremolite, magnesium]		2	Time Weighted Average (TWA):		UA OELA
Limestone 1317-65-3 [Silicate-containing dust, silicates, aluminosilicates: natural asbestos (chrysotile, anthophyllite, actinolite, tremolite, magnesium]		0,5	Short Term Exposure Limit (STEL):		UA OELA
Limestone 1317-65-3 [Silicate-containing dust, silicates, aluminosilicates: asbestos cement Silicate-containing dust, silicates, aluminosilicates: asbestos groceries, asbestos rubber]		4	Short Term Exposure Limit (STEL):		UA OELA
Limestone 1317-65-3 [Carbon dusts: natural and synthetic diamonds]		8	Time Weighted Average (TWA):		UA OELA
Limestone 1317-65-3 [Carbon dusts: carbon fiber materials based on polyacrylonitrile fibers Carbon dusts: carbon fiber materials based on cellulose hydrate fibers Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content less than 10%]		2	Short Term Exposure Limit (STEL):		UA OELA
Limestone 1317-65-3		4	Time Weighted Average (TWA):		UA OELA

[Carbon dusts: carbon fiber materials based on cellulose hydrate fibers Carbon dusts: other mined coals and coal dusts containing from 5 to 10% free SiO2 Carbon dusts: carbon fiber materials based on polyacrylonitrile fibers Carbon dusts: black industrial soot containing <35 mg benz(a)pyrene per kg Silicate-containing dust, silicates, aluminosilicates: vitreous silicates of volcanic origin (tuff, pumice, perlite) Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content less than 10% Silicate-containing dust, silicates, aluminosilicates: mica (flagopit, muscovite), talc, talc dust (natural mixtures of talc with tr Carbon dust: metallized diamond]					
Titanium dioxide 13463-67-7 [Titanium and its dioxide]		10	Time Weighted Average (TWA):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Carbon dusts: natural and synthetic diamonds]		8	Time Weighted Average (TWA):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content from 10% to 20% Silicate-containing dust, silicates, aluminosilicates: natural asbestos (chrysotile, anthophyllite, actinolite, tremolite, magnesium]		2	Time Weighted Average (TWA):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Carbon dusts: carbon fiber materials based on cellulose hydrate fibers Carbon dusts: other mined coals and coal dusts containing from 5 to 10% free SiO2 Carbon dusts: carbon fiber materials based on polyacrylonitrile fibers Carbon dusts: black industrial soot containing <35 mg benz(a)pyrene per kg Silicate-containing dust, silicates, aluminosilicates: vitreous silicates of volcanic origin (tuff, pumice, perlite) Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content less than 10% Silicate-containing dust, silicates, aluminosilicates: mica (flagopit, muscovite), talc, talc dust (natural mixtures of talc with tr Carbon dust: metallized diamond]		4	Time Weighted Average (TWA):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content from 10% to 20%]		1	Short Term Exposure Limit (STEL):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Carbon dusts: other mined coals and coal dusts containing up to 5% free SiO2 Silicate-containing dust, silicates, aluminosilicates: asbestos groceries, asbestos rubber]		10	Time Weighted Average (TWA):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Silicate-containing dust, silicates, aluminosilicates: natural asbestos (chrysotile, anthophyllite, actinolite, tremolite, magnesium]		0,5	Short Term Exposure Limit (STEL):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6		6	Time Weighted Average (TWA):		UA OELA

[Carbon dusts: coke from coal, pitch, oil, shale Silicate-containing dust, silicates, aluminosilicates: asbestos cement Carbon dusts: anthracite containing up to 5% free SiO2 Silicate-containing dust, silicates, aluminosilicates: concrete, olivine, apatite, fosterite, clay, kaolin fireclay]					
Talc (Mg3H2(SiO3)4) 14807-96-6 [Silicate-containing dust, silicates, aluminosilicates: asbestos cement Silicate-containing dust, silicates, aluminosilicates: asbestos groceries, asbestos rubber]		4	Short Term Exposure Limit (STEL):		UA OELA
Talc (Mg3H2(SiO3)4) 14807-96-6 [Carbon dusts: carbon fiber materials based on polyacrylonitrile fibers Carbon dusts: carbon fiber materials based on cellulose hydrate fibers Silicate-containing dust, silicates, aluminosilicates: asbestos dust with asbestos content less than 10%]		2	Short Term Exposure Limit (STEL):		UA OELA
Propane-1,2-diol 57-55-6 [Propane-1,2-diol]		7	Time Weighted Average (TWA):		UA OELA
Chromium (III) oxide 1308-38-9 [CHROMIUM METAL, INORGANIC CHROMIUM(II) COMPOUNDS AND INORGANIC CHROMIUM(III) COMPOUNDS (INSOLUBLE)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Chromium (III) oxide 1308-38-9 [Chromium (III) oxide]		1	Time Weighted Average (TWA):		UA OELA
Chromium (III) oxide 1308-38-9 [Chromium (III) oxide]			Skin designation:	Chemical is dangerous when exposed to the skin and the mucous membrane of the eyes	UA OELA
Diiron trioxide 1309-37-1 [Diiron trioxide]		6	Time Weighted Average (TWA):		UA OELA
Propylidynetrimethanol 77-99-6 [2,2-Bis(hydroxymethyl)-1-butanol]		50	Time Weighted Average (TWA):		UA OELA

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Chromium (III) oxide 1308-38-9	Soil				3,2 mg/kg		
Chromium (III) oxide 1308-38-9	sewage treatment plant (STP)		10 mg/l				
Chromium (III) oxide 1308-38-9	sediment (marine water)				1,31 mg/kg		
Chromium (III) oxide 1308-38-9	aqua (marine water)		0,0047 mg/l				
Chromium (III) oxide 1308-38-9	aqua (intermittent releases)		0,0047 mg/l				
Chromium (III) oxide 1308-38-9	sediment (freshwater)				18,2 mg/kg		
Chromium (III) oxide 1308-38-9	aqua (freshwater)		0,0047 mg/l				
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	aqua (freshwater)		0,010 mg/l				
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	aqua (marine water)		0,001 mg/l				
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	aqua (intermittent releases)		0,00148 mg/l				
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	sewage treatment plant (STP)		0,251 mg/l				
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	sediment (freshwater)				1,72 mg/kg		
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	sediment (marine water)				0,172 mg/kg		
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	Soil				10 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	aqua (freshwater)		0,00026 mg/l				
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Soil				10 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	sewage treatment plant (STP)		0,550 mg/l				
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	sediment (freshwater)				3,76 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	sediment (marine water)				0,376 mg/kg		
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	aqua (marine water)		0,000026 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (freshwater)		0,00403 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	aqua (marine water)		0,000403 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Freshwater - intermittent		0,0011 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sewage treatment plant (STP)		1,03 mg/l				
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (freshwater)				0,0499 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sediment (marine water)				0,00499 mg/kg		
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Soil				3 mg/kg		
1,2-Benzisothiazol-3(2H)-one	Marine water -		0,000110				

2634-33-5	intermittent		mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	sediment (freshwater)				0,0475 mg/kg		
2-Octyl-2H-isothiazol-3-one 26530-20-1	sediment (marine water)				0,00475 mg/kg		
2-Octyl-2H-isothiazol-3-one 26530-20-1	aqua (freshwater)		0,0022 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	aqua (intermittent releases)		0,0012 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	aqua (marine water)		0,00022 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	Soil				0,0082 mg/kg		
2-Octyl-2H-isothiazol-3-one 26530-20-1	sewage treatment plant (STP)		3,04 mg/l				
2-Octyl-2H-isothiazol-3-one 26530-20-1	Predator						no potential for bioaccumulation
Pyrithione zinc 13463-41-7	sewage treatment plant (STP)		0,01 mg/l				
Pyrithione zinc 13463-41-7	sediment (freshwater)				0,009 mg/kg		
Pyrithione zinc 13463-41-7	sediment (marine water)				0,009 mg/kg		
Pyrithione zinc 13463-41-7	Soil				1,02 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	aqua (freshwater)		0,00339 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	aqua (marine water)		0,00339 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	sewage treatment plant (STP)		0,23 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	sediment (freshwater)				0,027 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	sediment (marine water)				0,027 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Soil				0,01 mg/kg		
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Freshwater - intermittent		0,00339 mg/l				
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Marine water - intermittent		0,00339 mg/l				
2-methylisothiazol-3(2H)-one 2682-20-4	aqua (freshwater)		0,00339 mg/l				
2-methylisothiazol-3(2H)-one 2682-20-4	aqua (marine water)		0,00339 mg/l				
2-methylisothiazol-3(2H)-one 2682-20-4	sewage treatment plant (STP)		0,23 mg/l				
2-methylisothiazol-3(2H)-one 2682-20-4	Soil				0,047 mg/kg		
2-methylisothiazol-3(2H)-one 2682-20-4	Freshwater - intermittent		0,00339 mg/l				
2-methylisothiazol-3(2H)-one 2682-20-4	Marine water - intermittent		0,00339 mg/l				

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Propylidynetrimethanol 77-99-6	Workers	inhalation	Long term exposure - systemic effects		3,3 mg/m3	
Propylidynetrimethanol 77-99-6	Workers	dermal	Long term exposure - systemic effects		0,94 mg/kg	
Propylidynetrimethanol 77-99-6	General population	Inhalation	Long term exposure - systemic effects		0,58 mg/m3	
Propylidynetrimethanol 77-99-6	General population	dermal	Long term exposure - systemic effects		0,34 mg/kg	
Propylidynetrimethanol 77-99-6	General population	oral	Long term exposure - systemic effects		0,34 mg/kg	
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	Workers	inhalation	Long term exposure - systemic effects		0,035 mg/m3	
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	Workers	dermal	Long term exposure - systemic effects		0,01 mg/kg	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Workers	Inhalation	Long term exposure - systemic effects		0,38 mg/m3	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Workers	inhalation	Long term exposure - local effects		1 mg/m3	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	Workers	inhalation	Acute/short term exposure - local effects		1 mg/m3	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	General population	inhalation	Long term exposure - systemic effects		0,035 mg/m3	
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	General population	oral	Long term exposure - systemic effects		40 µg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	inhalation	Acute/short term exposure - local effects		500 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	inhalation	Long term exposure - systemic effects		6,81 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	dermal	Acute/short term exposure - local effects			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	dermal	Long term exposure - local effects			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Workers	dermal	Long term exposure - systemic effects		0,966 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	inhalation	Long term exposure - systemic effects		1,2 mg/m3	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	oral	Long term exposure - systemic effects		1,2 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	dermal	Acute/short term exposure - local effects			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	dermal	Long term exposure - local effects			
1,2-Benzisothiazol-3(2H)-one 2634-33-5	General population	dermal	Long term exposure - systemic effects		0,345 mg/kg	
Pyrithione zinc	Workers	dermal	Long term		0,01 mg/kg	

13463-41-7			exposure - systemic effects			
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Workers	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Workers	inhalation	Long term exposure - local effects		0,02 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	Workers	dermal	Acute/short term exposure - local effects			
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	inhalation	Acute/short term exposure - local effects		0,04 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	inhalation	Long term exposure - local effects		0,02 mg/m3	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	oral	Acute/short term exposure - systemic effects		0,11 mg/kg	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	oral	Long term exposure - systemic effects		0,09 mg/kg	
3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone (3:1) 55965-84-9	General population	dermal	Acute/short term exposure - local effects			
2-methylisothiazol-3(2H)-one 2682-20-4	Workers	inhalation	Long term exposure - local effects		0,021 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	Workers	inhalation	Acute/short term exposure - local effects		0,043 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	inhalation	Long term exposure - local effects		0,021 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	oral	Long term exposure - systemic effects		0,027 mg/kg	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	oral	Acute/short term exposure - systemic effects		0,053 mg/kg	
2-methylisothiazol-3(2H)-one 2682-20-4	General population	inhalation	Acute/short term exposure - local effects		0,043 mg/m3	
2-methylisothiazol-3(2H)-one 2682-20-4	Workers	dermal	Acute/short term exposure - local effects			
2-methylisothiazol-3(2H)-one 2682-20-4	General population	dermal	Acute/short term exposure - local effects			

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.
Combination filter: ABEKP (EN 14387)
This recommendation should be matched to local conditions.

Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.1 mm
Perforation time > 480 minutes
In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

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

Skin protection:

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

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form	dispersion
Colour	White
Odor	Characteristic
Physical state	liquid
Melting point	Currently under determination
Initial boiling point	100 °C (212 °F);; Boiling point
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	; ASTM D 93-96 Flash point Aqueous solution
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH (20 °C (68 °F); Conc.: % product)	9 - 10 Measurement of pH-value
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic (Brookfield; 20 °C (68 °F))	15.000 - 20.000 mPa.s Viscosity (Brookfield)::49200
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density (20 °C (68 °F))	1,2 - 1,3 g/cm3 Density (pyknometer)::50200
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

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

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Chromium (III) oxide 1308-38-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Propylidynetrimethanol 77-99-6	LD50	14.700 mg/kg	rat	not specified
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	LD50	500 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	LD50	1.689 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Terbutryn 886-50-0	LD50	1.000 - 1.470 mg/kg	rat	not specified
Terbutryn 886-50-0	Acute toxicity estimate (ATE)	1.000 mg/kg		Expert judgement
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Acute toxicity estimate (ATE)	450 mg/kg		Expert judgement
2-Octyl-2H-isothiazol-3-one 26530-20-1	Acute toxicity estimate (ATE)	125 mg/kg		Expert judgement
pyrithione zinc 13463-41-7	Acute toxicity estimate (ATE)	221 mg/kg		Expert judgement
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LD50	66 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2-methylisothiazol-3(2H)-one 2682-20-4	LD50	120 mg/kg	rat	EPA OPPTS 870.1100 (Acute Oral Toxicity)

Acute dermal toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Propylidynetrimethanol 77-99-6	LD50	> 10.000 mg/kg	rabbit	not specified
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Terbutryn 886-50-0	LD50	> 10.200 mg/kg	rabbit	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2-Octyl-2H-isothiazol-3-one 26530-20-1	Acute toxicity estimate (ATE)	311 mg/kg		Expert judgement
pyrithione zinc 13463-41-7	LD50	> 2.000 mg/kg	rat	EPA OPP 81-2 (Acute Dermal Toxicity)
Isothiazolinone mixture (C(M)IT/MIT (3:1))	LD50	87,12 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

55965-84-9				
2-methylisothiazol-3(2H)-one 2682-20-4	LD50	242 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	LC50	> 5,41 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Propylidynetrimethanol 77-99-6	LC50	> 0,85 mg/l	dust/mist	4 h	rat	not specified
Terbutryn 886-50-0	LC50	> 8 mg/l	dust/mist	4 h	rat	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Acute toxicity estimate (ATE)	0,21 mg/l	dust/mist			Expert judgement
2-Octyl-2H-isothiazol-3-one 26530-20-1	Acute toxicity estimate (ATE)	0,27 mg/l	dust/mist	4 h		Expert judgement
pyrithione zinc 13463-41-7	Acute toxicity estimate (ATE)	0,14 mg/l	dust/mist	4 h		Expert judgement
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LC50	0,171 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
2-methylisothiazol-3(2H)-one 2682-20-4	LC50	0,11 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Propylidynetrimethanol 77-99-6	not irritating	24 h	rabbit	not specified
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	corrosive	1 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	corrosive	1 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	moderately irritating	4 h	rabbit	EPA OPP 81-5 (Acute Dermal Irritation)
pyrithione zinc 13463-41-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-methylisothiazol-3(2H)-one 2682-20-4	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Propylidynetrimethanol 77-99-6	not irritating		rabbit	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	corrosive	3 h	rabbit	EPA OPP 81-4 (Acute Eye Irritation)
pyrithione zinc 13463-41-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified
2-methylisothiazol-3(2H)-one 2682-20-4	Category 1 (irreversible effects on the eye)			Weight of evidence

Respiratory or skin sensitization:

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

Hazardous substances CAS-No.	Result	Test type	Species	Method
Chromium (III) oxide 1308-38-9	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Propylidynetrimethanol 77-99-6	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Terbutryn 886-50-0	sensitising		mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Octyl-2H-isothiazol-3-one 26530-20-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
pyrithione zinc 13463-41-7	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified
2-methylisothiazol-3(2H)-one 2682-20-4	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propylidynetrimethanol 77-99-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propylidynetrimethanol 77-99-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propylidynetrimethanol 77-99-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	positive without metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
pyrithione zinc 13463-41-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
pyrithione zinc 13463-41-7	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
pyrithione zinc 13463-41-7	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	ambiguous	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	positive	in vitro mammalian chromosome aberration test	with and without		EPA OPP 84-2 (Mutagenicity Testing)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	positive	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	not applicable		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Chromium (III) oxide 1308-38-9	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Propylidynetrimethanol 77-99-6	negative	oral: gavage		rat	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Propylidynetrimethanol 77-99-6	positive	oral: gavage		rat	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
Propylidynetrimethanol	positive	intraperitoneal		hamster,	not specified

77-99-6				Chinese	
Propylidynetrimethanol 77-99-6	negative	oral: feed		Drosophila melanogaster	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	negative	oral: unspecified		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
pyrithione zinc 13463-41-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		mouse	OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: feed		Drosophila melanogaster	OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	negative	oral: gavage		rat	EPA OPP 84-2 (Mutagenicity Testing)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-methylisothiazol-3(2H)-one 2682-20-4	negative	oral: gavage		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)

Carcinogenicity

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

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

Reproductive toxicity:

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Propylidynetrimethanol 77-99-6	NOAEL P > 6000 ppm NOAEL F1 > 6000 ppm	screening	oral: drinking water	rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
Propylidynetrimethanol 77-99-6	NOAEL P 2200 ppm NOAEL F1 2200 ppm NOAEL F2 740 ppm	one-generation study	oral: drinking water	rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL P 112 mg/kg NOAEL F1 56,6 mg/kg NOAEL F2 56,6 mg/kg	Two generation study	oral: feed	rat	EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL P 30 ppm NOAEL F1 300 ppm NOAEL F2 300 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
2-methylisothiazol-3(2H)-one 2682-20-4	NOAEL P 200 ppm NOAEL F1 200 ppm NOAEL F2 200 ppm	Two generation study	oral: drinking water	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

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

Hazardous substances CAS-No.	Assessment	Route of exposure	Target Organs	Remarks
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	May cause respiratory irritation.			

STOT-repeated exposure:

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Chromium (III) oxide 1308-38-9	NOAEL > 2.000 mg/kg	oral: feed	90 d 5 d/w	rat	not specified
Propylidynetrimethanol 77-99-6	NOAEL 67 mg/kg	oral: feed	90 d daily	rat	not specified
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	NOAEL 0,4 mg/kg	oral: gavage	90-91 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 150 mg/kg	oral: gavage	28 days daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOAEL 69 mg/kg	oral: feed	90 days daily	rat	EPA OPP 82-1 (90-Day Oral Toxicity)
pyrithione zinc 13463-41-7	NOAEL 0,5 mg/kg	oral: gavage	104 w daily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL 16,3 mg/kg	oral: drinking water	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL 0.34 mg/m3	inhalation: aerosol	90 d 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOAEL 2,625 mg/kg	dermal	90 d 6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
2-methylisothiazol-3(2H)-one 2682-20-4	NOAEL 60 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	5,25 mm2/s	40 °C		

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No data available.

SECTION 12: Ecological information

General ecological information:
Do not empty into drains, soil or bodies of water.
Self classification: product testing according to Classification, Labelling and Packaging Regulation EC/1272/2008, Annex 1, Part 4.

12.1. Toxicity

Toxicity (Fish):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	LC50		96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)]
Chromium (III) oxide 1308-38-9	NOEC		30 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early life stage toxicity test)
Propylidynetrimethanol 77-99-6	LC50	> 1.000 mg/l	96 h	Alburnus alburnus	other guideline:
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	LC50	0,148 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	LC50	0,06 mg/l	96 h	Pimephales promelas	EPA OPPTS 850.1085 (Fish Acute Toxicity Test mitigated by humic acid)
Terbutryn 886-50-0	LC50	1,9 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Terbutryn 886-50-0	NOEC	0,073 mg/l	28 d	Pimephales promelas	OECD Guideline 210 (fish early life stage toxicity test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50	2,15 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	0,21 mg/l	30 d	Oncorhynchus mykiss	OECD Guideline 215 (Fish, Juvenile Growth Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	LC50	0,036 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	NOEC	0,022 mg/l	21 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early life stage toxicity test)
pyrithione zinc 13463-41-7	LC50	0,0026 mg/l	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute Toxicity Test)
pyrithione zinc 13463-41-7	NOEC	0,00112 mg/l	32 d	Pimephales promelas	OECD Guideline 210 (fish early life stage toxicity test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	LC50	0,22 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOEC	0,098 mg/l	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early life stage toxicity test)
2-methylisothiazol-3(2H)-one 2682-20-4	LC50	4,77 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	LC50		48 h	Ceriodaphnia dubia	other guideline:
Propylidynetrimethanol 77-99-6	EC50	13.000 mg/l	48 h	Daphnia magna	other guideline:
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	EC50	> 0,01 - 0,1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	EC50	0,98 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Terbutryn 886-50-0	EC50	6,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	2,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC50	0,42 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
pyrithione zinc 13463-41-7	EC50	0,0063 mg/l	96 h	Americamysis bahia	EPA OPP 72-3 (Estuarine/Marine Fish, Mollusk, or Shrimp Acute Toxicity Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	EC50	0,12 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0,93 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

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

Hazardous substances **CAS-No.**	**Value type**	**Value**	**Exposure time**	**Species**	**Method**
Chromium (III) oxide 1308-38-9	NOEC		21 d	Daphnia magna	other guideline:
Propylidynetrimethanol 77-99-6	NOEC	> 1.000 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	NOEC	> 0,001 - 0,01 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	NOEC	0,013 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Terbutryn 886-50-0	NOEC	0,05 mg/l	21 day	Daphnia	OECD 211 (Daphnia magna, Reproduction Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	NOEC	1,2 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	NOEC	0,0016 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
pyrithione zinc 13463-41-7	NOEC	0,0022 mg/l	21 d	Daphnia magna	EPA OPP 72-4 (Fish Early Life-Stage/Aquatic Invert.Life-Cyclcle Studies)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOEC	0,0036 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-methylisothiazol-3(2H)-one 2682-20-4	NOEC	0,04 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	EC50		72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chromium (III) oxide 1308-38-9	EC10		72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propylidynetrimethanol 77-99-6	EC50	> 1.000 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	EC50	0,507 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	EC50	0,46 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	NOEC	0,15 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Terbutryn 886-50-0	EC50	0,0067 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Terbutryn 886-50-0	NOEC	0,0005 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	0,1087 mg/l	24 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC10	0,0264 mg/l	24 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC50	0,00129 mg/l	48 h	Navicula pelliculosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC10	0,000224 mg/l	48 h	Navicula pelliculosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
pyrithione zinc 13463-41-7	EC50	0,0006 mg/l	48 h	Skeletonema costatum	EPA OPP 123-3 (Algal Toxicity, Tiers I and II)
pyrithione zinc 13463-41-7	NOEC	0,00004 mg/l	48 h	Skeletonema costatum	EPA OPP 123-3 (Algal Toxicity, Tiers I and II)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	EC50	0,0052 mg/l	72 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	NOEC	0,00064 mg/l	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	NOEC	0,03 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	0,22 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Toxicity (microorganisms):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Propylidynetrimethanol 77-99-6	EC10	> 1.000 mg/l	3 h	activated sludge of a predominantly domestic sewage	EU Method C.11 (Biodegradation: Activated Sludge Respiration Inhibition Test)
Terbutryn 886-50-0	EC20	> 100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50	23 mg/l	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	NOEC	30,4 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
pyrithione zinc	NOEC	0,1 mg/l	3 h	activated sludge	OECD Guideline 209

13463-41-7					(Activated Sludge, Respiration Inhibition Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	EC20	0,97 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-methylisothiazol-3(2H)-one 2682-20-4	EC50	41 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Biodegradability (Screening Tests):
The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Propylidynetrimethanol 77-99-6	not readily biodegradable.	aerobic	6 %	28 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Propylidynetrimethanol 77-99-6	inherently biodegradable	aerobic	100 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	readily biodegradable	aerobic	66 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	readily biodegradable	aerobic	66 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Terbutryn 886-50-0	not readily biodegradable.		0 %		OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	not readily biodegradable.	aerobic	42,1 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	not readily biodegradable.	aerobic	35 %	21 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
pyrithione zinc 13463-41-7	not readily biodegradable.	aerobic	39 %	28 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	inherently biodegradable	aerobic	100 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	readily biodegradable	aerobic	> 60 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2-methylisothiazol-3(2H)-one 2682-20-4	inherently biodegradable	aerobic	97 %	48 h	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
2-methylisothiazol-3(2H)-one 2682-20-4	readily biodegradable	aerobic	> 70 %	28 d	OECD Guideline 309 (Aerobic Mineralisation in Surface WaterSimulation Biodegradation Test)

(Bio)degradability (Simulation Tests):
The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Environmental Compartment	DT50	Temperature	Method
Terbutryn 886-50-0	Soil	> 365 d		OECD Test Guideline 307

12.3. Bioaccumulative potential

Partition Coefficient (octanol/water)
The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Chromium (III) oxide 1308-38-9	2,97		not specified
Propylidynetrimethanol 77-99-6	-0,47	26 °C	not specified
Amines, N-(C16-18 and C18-unsatd. alkyl)trimethylene, di- 1219010-04-4	1,46	25,7 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	8,35	20 °C	EU Method A.8 (Partition Coefficient)
Terbutryn 886-50-0	3,19		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
1,2-Benzisothiazol-3(2H)-one 2634-33-5	0,7	20 °C	EU Method A.8 (Partition Coefficient)
2-Octyl-2H-isothiazol-3-one 26530-20-1	2,9		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
pyrithione zinc 13463-41-7	0,9	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	> -0,71 - 0,75	20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
2-methylisothiazol-3(2H)-one 2682-20-4	-0,5		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Bioconcentration factor (BCF)
The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Propylidynetrimethanol 77-99-6	< 17	42 d	25 °C	Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Amines, C16-18 and C16-18-unsatd. alkyl 1213789-63-9	173			calculation	not specified
1,2-Benzisothiazol-3(2H)-one 2634-33-5	6,62	56 d		not specified	other guideline:
pyrithione zinc 13463-41-7	8,28	30 d		Crassostrea virginica	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Isothiazolinone mixture (C(M)IT/MIT (3:1)) 55965-84-9	54	28 d		Lepomis macrochirus	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

12.4. Mobility in soil

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

Hazardous substances CAS-No.	LogKoc	pH	Method
Terbutryn 886-50-0	2,67		OECD Guideline 121 (OECD 121: Estimation of the Koc on Soil and on Sewage Sludge using HPLC)

12.5. Results of PBT / vPvB / PMT / vPvM assessment

PBT/vPvB
The following table contains only substances that fulfill the criteria as PBT and/or vPvB.
The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT	vPvB
Chromium (III) oxide 1308-38-9	According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances.	

PMT/vPvM
The following table contains only substances that fulfill the criteria as PMT and/or vPvM.
The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	PMT	vPvM
Terbutryn 886-50-0	Persistent, mobile and toxic (PMT).	

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Disposal of uncleaned packages:
Use packages for recycling only when totally empty.

Waste code
080119

SECTION 14: Transport information

14.1. UN number or ID number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

No information available:

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

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

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

EUH450 Can cause long-lasting and diffuse contamination of water resources.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADG(-Code): Australian Dangerous Goods (Code)
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM: American Society for Testing and Materials
ATE: acute toxicity estimate
AS: Australian Standard
AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water
CAS: Chemical Abstract Service
CLP: Regulation (EC) No 1272/2008
CMR: cancerogenic, mutagenic or reprotoxic
DIN: German Institute for Standardization
ECx: Effective concentration (x% effective level)
ECHA: European Chemicals Agency
EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS
ECTLV: European community threshold limit value
ED:Substance identified as having endocrine disrupting properties
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EN : European Standard
ENCS: Japanese chemical inventory
EPA: US Environmental Protection Agency
EU: European Union
EU EXPLD1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD2: Substance listed in Annex II, Reg (EC) No. 2019/1148
EWC: European Waste Catalogue
GHS: Globally Harmonised System for Classification and Labelling of Chemicals
GLP: Good Laboratory Practice
HSNO: Hazardous Substances and New Organisms
IARC: International Agency for Research of Cancer
IATA: International Air Transport Association
IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization
IMDG-Code: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
ISO: International Standardization Organisation
LC50: Median lethal concentration
LD50: Median lethal dose

MARPOL: International Convention for the Prevention of Marine Pollution from Ships
n.o.s.: not otherwise specified
NO(A)EC: No (adverse) effect concentration
NO(A)EL: No (adverse) effect level
NZS: New Zealand Standard
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit
OPPT: US EPA Office of Pollution Prevention and Toxics
OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances
PBT: Persistent, bioaccumulative, toxic
PMT: Persistent, mobile and toxic
(Q)SAR: (Quantitative) structure–activity relationship
REACH: Regulation (EC) No. 1907/2006
RID: Regulations concerning the International Transport of Dangerous Goods by Rail
SADT: Self Accelerating Decomposition Temperature
SDS: Safety Data Sheet
STOT: Specific Target Organ Toxicity
STOT SE: Specific Target Organ Toxicity - single exposure
STOT RE: Specific Target Organ Toxicity - repeated exposure
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons
SVHC: Substance of very high concern (REACH Candidate List)
TRGS: German Technical Rules for hazardous substances
UN: United Nations
VOC: Volatile Organic Compound
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative
vPvM: Very persistent and very mobile
VwVwS: Administrative Regulation on Substances Hazardous to Waters
WGK: Water hazard class

Further information:

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