NANO-ECOLINE HOUT UV PLUS

Safety data sheet

complies with Regulation (EC) No 1907/2006 (REACH) including the amending Regulation (EU) 2020/878
Reference number: hsl_005
Issue date: 09.08.2024 Version: 2.0

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

1.1 Product identifier

Product shape	:	Mixture
Trade name	:	Nano-Ecoline Hout UV Plus
UFI	:	T2F7-S4CA-RE2F-SKPG
Product code	:	HS-OS-010, HS-OS-011, HS-OS-018

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

1.2.1. Relevant identified uses

Main utilisation category	:	Commercial use
Use of the substance/mixture	:	Transparent special impregnation for natural woods with greying and weather protection
Function or utilisation category	:	Coating agent

1.2.2. Uses advised against

No further information available

1.3 Details of the supplier providing the safety data sheet

Manufacturer
NanoEnzo B.V.
Eenruiter 6, 3833 SB Leusden
the Netherlands
+31 850 07 99 00
www.nanoenzo.com

1.4 Emergency number

Emergency number	+31 88 755 8000 (available 24/7) the National Poisons Information Center (NVIC) - Utrecht, the Netherlands For professional healthcare providers only, to provide information in case of acute poisoning.

SECTION 2: Potential hazards

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin sensitisation, category 1 H317

Wording of H- and EUH-phrases: see section 16

Harmful physico-chemical, health and environmental effects

May cause allergic skin reactions.

2.2 Labelling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP].

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Caution

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; 1,2-benzisothiazolin-3-one; Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

Safety instructions (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash before reuse.

2.3 Other hazards

Contains no PBT and/or vPvB substances≥ 0.1%, assessed according to REACH Annex XIII

The mixture does not contain substances with endocrine disrupting properties (according to REACH Article 59(1) or Regulation 2017/2100 or Regulation 2018/605) in a concentration of≥ 0.1 %

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Remarks : Aqueous suspension

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS No.: 2634-33-5 EC no.: 220-120-9 EC Index No.: 613-088-00-6	0,001 - <0,025	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg body weight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one Substance with national occupational exposure limit (DE, AT)	CAS No.: 26530-20-1 EC no.: 247-761-7 EC Index No.: 613-112-00-5	0,01 - <0,025	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg body weight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg body weight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Substance with national occupational exposure limit (AT) (Note B)	CAS No.: 55965-84-9 EC-No.: 911-418-6 EC Index No.: 613-167-00-5	0,0001 - 0,001	Acute Tox. 2 (Inhalative), H330 (ATE=0.05 mg/l/4h) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg body weight) Acute Tox. 3 (Oral), H301 (ATE=59 mg/kg body weight) 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

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS No.: 2634-33-5 EC no.: 220-120-9 EC Index No.: 613-088-00-6	(0,05≤ C≤ 100) Skin Sens. 1; H317
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	CAS No.: 26530-20-1 EC no.: 247-761-7 EC Index No.: 613-112-00-5	(0,0015≤ C≤ 100) Skin Sens. 1A; H317
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC-No.: 911-418-6 EC Index No.: 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.6≤ C≤ 100) Skin Corr. 1C; H314 (0.6 ≤ C ≤ 100) Eye Dam. 1; H318

Note B: Some substances (acids, bases, etc.) are placed on the market as aqueous solutions in different concentrations; this also requires different classification and labelling as different concentrations may present different hazards Unless otherwise stated, % always refers to the percentage by weight

Wording of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General first aid measures : Seek medical advice if you feel unwell.

First aid measures after inhalation : Move the person to fresh air and ensure unobstructed breathing.

First aid measures after skin contact : Wash skin with plenty of water. Remove contaminated clothing. In case of skin irritation or Rash: Seek medical advice/attention.

First aid measures after eye contact : Rinse eyes with water as a precaution.

First aid measures after ingestion : If you feel unwell, call a poison information centre or doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Although no corresponding human or animal toxicity data known, it is not possible to product is expected to be hazardous after inhalation.

Symptoms/effects after skin contact : May cause allergic skin reactions.

Symptoms/effects after eye contact : None under normal circumstances.

Symptoms/effects after ingestion : None under normal circumstances.

4.3 Information on immediate medical assistance or specialised treatment

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing agents

Suitable extinguishing agents : Water spray jet. Dry extinguishing powder. Foam. Carbon dioxide.

Unsuitable extinguishing agents : Do not use a strong jet of water.

5.2 Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : No direct risk of explosion.

Hazardous decomposition products in the event of fire : Possible release of toxic fumes.

5.3 Instructions for firefighting

Deletion instructions : Fight the fire from a protected location at a safe distance. Do not use the fire compartment without adequate protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt work without suitable protective equipment. Ambient air-independent breathing apparatus. Full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Eliminate leaks, if possible, without risk. If the product gets into the sewage system or public waters, notify the authorities. Use spillages to avoid material damage.

6.1.1. Staff not trained for emergencies

Protective equipment : Wear recommended personal protective equipment.
Emergency measures : Ventilate contaminated area. Avoid contact with eyes and skin. Inhalation of dust/fume/gas/mist/vapour/aerosol.

6.1.2. Emergency services

Protective equipment : Do not attempt to work without suitable protective equipment. Further information: see Section 8 "Exposure controls/personal protective equipment".
Emergency measures : Evacuate uninvolved persons. Eliminate the leak if it is safe to do so.

6.2 Environmental protection measures

Avoid release into the environment.

6.3 Methods and material for containment and cleaning

For retention : Soak up spilled/leaked product with sand or earth. Contain the spill or absorb it with liquid-binding material to prevent it from entering the sewerage system or watercourses. Stop the spill if safely possible.
Cleaning process : Soak up spilled liquid with absorbent.
Other information : Dispose of substances or residual quantities in solid to an authorised facility.

6.4 Reference to other sections

For further information see section 13.

SECTION 7: Handling and storage

7.1 Protective measures for safe handling

Additional hazards during processing : No significant hazard to be expected under normal conditions of use.
Protective measures for safe handling : that the workplace is well ventilated. Contact with the eyes and skin Avoid. Avoid inhalation of dust/fume/gas/mist/vapour/aerosol. personal protective equipment.
Hygiene measures : Do not wear contaminated work clothing outside the workplace. Contaminated Wash clothing before reuse. Do not eat, drink or smoke when using the product. Always wash your hands after handling the product.

7.2 Conditions for safe storage taking into account incompatibilities

Technical measures : Store in a cool, well-ventilated place away from heat sources.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Always store the product in containers made of the same material as the original container.

7.3 Specific end uses

No further information available

SECTION 8: Exposure controls/personal protective equipment

8.1 Parameters to be monitored

8.1.1 National occupational exposure limit values and biological limit values

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Austria - Limitation of exposure at the workplace	
Local designation	5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di-hydroisothiazol-3-one (mixture in a ratio of 3:1)
MAK (OEL TWA)	0.05 mg/m³
Remark	Sh
Legal reference	Federal Law Gazette II No. 156/2021
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)	
Austria - Limitation of exposure at the workplace	
Local designation	2-Octyl-2H-isothioazol-3-on
MAK (OEL TWA)	0.05 mg/m³ (E)
OEL C	0.05 mg/m³ (E)
Remark	H, S
Legal reference	Federal Law Gazette II No. 156/2021
Germany - Limitation of exposure at the workplace (TRGS 900)	
Local designation	2-Octyl-2H-isothiazol-3-on
AGW (OEL TWA)	0.05 mg/m³ (E)
Exceedance factor of the peak limitation	2(I)
Remark	DFG - Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area of the DFG (MAK Commission); H - skin-resorptive; Y - there is no need to fear a risk of fruit damage if the occupational exposure limit value and the biological limit value (BGW) are complied with
Legal reference	TRGS900

8.1.2. Recommended monitoring procedures No further information available

8.1.3. Released air pollutants No further information available

8.1.4. DNEL and PNEC values No further information available

8.1.5. Control banding No further information available

8.2. Exposure controls and monitoring

8.2.1. Suitable technical control equipment

Suitable technical control equipment:
Ensure that the workplace is well ventilated.

8.2.2. Personal protective equipment

Personal protective equipment:
Personal protective equipment - Symbol(s):

8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing when working

Hand protection:
Wear gloves that have been tested according to the EN 374 standard. Please observe the manufacturer's instructions on permeability and breakthrough time. The choice of a suitable glove depends not only on the material, but also on other quality features that differ from manufacturer to manufacturer

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Butyl rubber	6 (> 480 minutes)		3 (> 0.65)	

8.2.2.3. Respiratory protection

Respiratory protection:
Wear suitable respiratory protective equipment in case of insufficient ventilation

8.2.2.4. Thermal hazards

No further information available

8.2.3. Limitation and monitoring of environmental exposure

Limitation and monitoring of environmental exposure:
Avoid release into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Aggregate state	:	Liquid
Colour	:	White.
Odour	:	weak.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	≈ 100 °C
Flammability	:	Not available
Explosive properties	:	The product is not explosive.
Fire-promoting properties	:	Not oxidising.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not available
Ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH value	:	7,9
Viscosity, kinematic	:	Not available
Solubility	:	Miscible.
Partition coefficient n-octanol/water (Log Kow)	:	Not available

Vapour pressure	23 hPa
Vapour pressure at 50°C	Not available
Density	1.01 g/cm³
Relative density	Not available
Relative vapour density at 20°C	Not available
Particle properties	Not applicable

9.2. Other information

9.2.1. Information on physical hazard classes

No further information available

9.2.2. Other safety-related parameters

No further information available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions are known under normal conditions of use.

10.4. Conditions to avoid

None under the recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No further information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, no hazardous decomposition products should formed.

SECTION 11: Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No 1272/2008

Acute toxicity (Oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LD50 oral	59 mg/kg body weight
LD50 dermal rat	> 1008 mg/kg body weight Animal: rat, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	> 75 mg/kg body weight

1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on (2634-33-5)	
LD50 oral rat	1020 mg/kg
LD50 oral	1020 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	4115 mg/kg body weight
LC50 inhalation - rat (dust/mist)	100 mg/l

Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)	
LD50 oral rat	125 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/irritation: Not classified pH value: 7.9

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH value	3.43 Temp.: 20 °C Concentration: 10 g/L

Serious eye damage/irritation: Not classified pH: 7.9

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH value	3.43 Temp.: 20 °C Concentration: 10 g/L

Respiratory or skin sensitisation: May cause an allergic skin reaction. Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified

1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on (2634-33-5)	
NOAEL (animal/female, F0/P)	112 mg/kg body weight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)
NOAEL (animal/female, F1)	56.6 mg/kg body weight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects)

Specific target organ toxicity at single exposure: Not classified
Specific target organ toxicity with repeated exposure: Not classified

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LOAEL (dermal, rat/rabbit, 90 days)	0.525 mg/kg body weight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

Aspiration hazard: Not classified

1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on (2634-33-5)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Health effects caused by these endocrine-disrupting properties; The substance or mixture has no endocrine disrupting properties.

11.2.2. Other information

No further information available

SECTION 12: Environmental information

12.1 Toxicity

Ecology - General : The product is not considered harmful to aquatic organisms, nor does it cause long-term damage. Damage to the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - fish [1]	0.19 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - fish [2]	0.28 mg/l Test organisms (species): Lepomis macrochirus
EC50 - crustaceans [1]	0.16 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	0.126 mg/l waterflea
EC50 - Other aquatic organisms [2]	0.003 mg/l
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.098 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on (2634-33-5)	
LC50 - fish [1]	16.7 mg/l Test organisms (species): Cyprinodon variegatus
LC50 - fish [2]	2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - crustaceans [1]	2.94 mg/l Test organisms (species): Daphnia magna
EC50 - crustaceans [2]	2.9 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	2.94 mg/l waterflea
EC50 - Other aquatic organisms [2]	0.11 mg/l
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)	
LC50 - fish [1]	0.122 mg/l Test organisms (species):
EC50 96h - algae [1]	0.15 mg/l Test organisms (species):

12.2. Persistence and degradability

NANO-ECOLINE HOUT UV PLUS	
Persistence and degradability	Quickly degradable
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Persistence and degradability	Quickly degradable
1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on (2634-33-5)	
Persistence and degradability	Quickly degradable
Octhilinone (ISO); 2-octyl-2H-isothiazol-3-one (26530-20-1)	
Persistence and degradability	Quickly degradable

12.3. Bioaccumulative potential

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Partition coefficient n-octanol/water (Log Pow)	0,4
1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on (2634-33-5)	
Partition coefficient n-octanol/water (Log Pow)	0,7

12.4. Mobility in soil

No further information available

12.5. Results of the PBT and vPvB assessment

No further information available

12.6. Endocrine disrupting properties

Harmful effects on the environment due to endocrine disrupting properties : The mixture does not contain substances with endocrine disrupting properties (according to REACH Article 59(1) or Regulation 2017/2100 or Regulation 2018/605) in an
Concentration of ≥ 0.1 %.

12.7. Other harmful effects

No further information available

SECTION 13: Disposal instructions

13.1 Waste treatment processes

Regional waste ordinance : Disposal must be carried out in accordance with official regulations.
Waste treatment processes : Dispose of contents/container in accordance with the sorting instructions of the authorised collector.
Recommendations for disposal into waste water : Disposal must be carried out in accordance with official regulations.
Recommendations for product/packaging : Disposal must be carried out in accordance with official regulations.
Waste disposal
Additional notes : Do not reuse empty containers.
European List of Waste (LoW, EC 2000/532) : 20 01 29* - Cleaning agents containing dangerous substances

SECTION 14: Transport information

According to ADR / IMDG / IATA

ADR	IMDG	IATA
14.1 UN number or ID number		
Not applicable	Not applicable	Not applicable
14.2. Proper shipping name UN shipping name		
Not applicable	Not applicable	Not applicable
14.3 Transport hazard classes		
Not applicable	Not applicable	Not applicable
14.4 Packaging group		
Not applicable	Not applicable	Not applicable
14.5 Environmental hazards		
Not applicable	Not applicable	Not applicable
No additional information available		

14.6 Special precautions for the user

Land transport
Not applicable

Sea transport
Not applicable

Air transport
Not applicable

14.7 Transport in bulk by sea in accordance with IMO instruments

Not applicable

SECTION 15: Legislation

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

15.1.1. EU regulations

REACH Annex XVII (Restriction list)

EU Restriction List (REACH Annex XVII)		
Reference code	Applicable to	Title or description of the entry
3(b)	NANO-ECOLINE HOUT UV PLUS; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ; octhilinone (ISO); 2- octyl-2H-isothiazol-3-one	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects sexual function and fertility and on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Reaction mass of 5- chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ; octhilinone (ISO); 2- octyl-2H-isothiazol-3-one	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

REACH Annex XIV (Authorisation list)

Does not contain any substances listed in REACH Annex XIV (Authorisation List)

REACH candidate list (SVHC)

Does not contain any substances listed on the REACH candidate list

PIC Regulation (prior informed consent)

Does not contain substances listed on the PIC list (Regulation EU 649/2012 concerning the export and import of dangerous chemicals)

POP Regulation (Persistent Organic Pollutants)

Does not contain any substances listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Does not contain any substances listed on the ozone depletion list (Regulation EU 1005/2009 on substances deplete the ozone layer)

Dual-use regulation (428/2009)

Does not contain substances subject to COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a community regime the control of exports, transfer, brokering and transit of dual-use items.

Regulation on explosives precursors (EU 2019/1148)

Does not contain substances on the list of explosives precursors (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursor Regulation (EC 273/2004)

Does not contain substances listed on the Drug Precursors List (Regulation EC 273/2004 on the manufacture and placing on the market of certain substances in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Austria

Austrian national regulations	Austria - Waste Catalogue (ÖN S 2100).

Germany

Employment restrictions	Observe restrictions in accordance with the Maternity Protection Act (MuSchG). Observe restrictions in accordance with the Youth Labour Protection Act (JArbSchG).
National regulations	: Washing and Cleaning Agents Act (WRMG). Water hazard class
(WGK)	WGK 1, slightly hazardous to water (classification according to AwSV,
Annex 1). Storage class (LGK, TRGS 510)	LGK 12 - Non-flammable liquids.

Combined storage not permitted for	:	LGK 1, LGK 6.2, LGK 7.
Limited storage permitted for	:	LGK 4.1A, LGK 4.3, LGK 5.1C.
Combined storage permitted for	:	LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.
Hazardous Incident Ordinance (12th BImSchV)	:	Not subject to the Hazardous Incident Ordinance (12th BImSchV)

15.2 Chemical safety assessment

A chemical safety assessment was not carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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
ATE	Acute toxicity estimate
BKF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived exposure level with minimal impairment
DNEL	Derived exposure level without impairment
EC no.	European Community Number
EC50	Medium effective concentration
EN	European standard
IARC	International Agency for Research on Cancer
IATA	Association for international air transport
IMDG	Dangerous goods regulations international sea transport
LC50	Lethal concentration for 50 % of a test population
LD50	Lethal dose for 50 % of a test population (median lethal dose)
LOAEL	Lowest dose with observable adverse effect
NOAEC	Concentration without observable harmful effect
NOAEL	Dose without observable adverse effect
NOEC	Highest tested concentration with no observed adverse effect
OECD	Organisation for Economic Cooperation and Development
AGW	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Estimated non-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
SDS	Safety data sheet
STP	Sewage treatment plant
ThSB	Theoretical oxygen demand (ThOD)
TLM	Median tolerance limit
VOC	Volatile organic compounds

Abbreviations and acronyms:	
CAS No.	Chemical Abstract Service - Number
N.A.G.	Not Elsewhere Specified
vPvB	Very persistent and very bio accumulative
ED	Endocrine disruptor

Full text of H- and EUH-phrases:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalative)	Acute toxicity (inhalation), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalative)	Acute toxicity (inhalation), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), category 4
Aquatic Acute 1	Acutely hazardous to the aquatic environment, category 1
Aquatic Chronic 1	Chronically hazardous to the aquatic environment, category 1
EUH071	Has a corrosive effect on the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Danger to life in case of skin contact.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause allergic skin reactions.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Danger to life if inhaled.
H331	Toxic by inhalation.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms with long lasting effects.
Skin Corr. 1	Skin corrosion/irritation, category 1
Skin Corr. 1C	Skin corrosion/irritation, category 1, subcategory 1C
Skin Irrit. 2	Skin corrosion/irritation, category 2
Skin Sens. 1	Skin sensitisation, category 1
Skin Sens. 1A	Skin sensitisation, category 1A

The categorisation corresponds to : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is only intended to describe the product in terms of health, safety and environmental conditions. It should therefore not be construed as a guarantee for specific properties of the product.