

# Tineco Pre-treat Formula

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 2022.11.09 Revision date: 2022.11.09 Version No: 1.0 SDS Number: SHAH0151427403

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Tineco Pre-treat Formula

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Clean for the carpet

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

Tineco Intelligent Technology Co.,Ltd.  
No. 108, West Shihu Road, Wuzhong District, Suzhou, China  
T 86-512-65964906  
[yonghua.huang@tineco.com](mailto:yonghua.huang@tineco.com)

##### Importer

Tineco Intelligent Europe GmbH  
Stresemannallee 6.2, 41460 Neuss  
T 0800-7262-2622

#### 1.4. Emergency telephone number

49 030 192 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
EUH-statements : EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	86.79 – 97.41	Not classified
2-Propanol, 1-methoxy-	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3	1 – 5	Flam. Liq. 3, H226 STOT SE 3, H336
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	CAS-No.: 68439-57-6 EC-No.: 270-407-8	1 – 4	Skin Irrit. 2, H315 Eye Dam. 1, H318
Alcohols, C9-11, ethoxylated, liquids	CAS-No.: 68439-46-3	0.5 – 2	Eye Irrit. 2, H319
9-Octadecenoic acid, 12-hydroxy-, zinc salt (2:1), [R-(Z)]-	CAS-No.: 13040-19-2 EC-No.: 235-911-4	0.02 – 2	Not classified
Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethoxylated	CAS-No.: 68937-54-2	0.05 – 0.1	Not classified
1,3-Propanediamine, N-(3-aminopropyl)-N-dodecyl- °	CAS-No.: 2372-82-9 EC-No.: 219-145-8	0.01 – 0.05	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Parfum	-	0.01 – 0.05	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Chronic 2, H411
1,2-Benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	0.005 – 0.01	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
1,2-Benzisothiazol-3(2H)-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

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: On combustion forms: carbon oxides, zinc oxides.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

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### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.
- Suitable packaging material : Plastic, e.g. HDPE, PET, PP, or glass

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

2-Propanol, 1-methoxy- (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m <sup>3</sup>
IOEL STEL	568 mg/m <sup>3</sup>
IOEL STEL [ppm]	150 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
Local name	1-Methoxypropanol-2

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<b>2-Propanol, 1-methoxy- (107-98-2)</b>	
MAK (OEL TWA)	187 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	187 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	50 ppm
OEL C	187 mg/m <sup>3</sup>
OEL C [ppm]	50 ppm
Remark	H
OEL chemical category	Skin notation
Regulatory reference	BGBI. II Nr. 238/2018
<b>Belgium - Occupational Exposure Limits</b>	
Local name	1-Méthoxy-2-propanol # 1-Methoxy-2-propanol
OEL TWA	184 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	369 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
OEL chemical category	Skin, Skin notation
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>Bulgaria - Occupational Exposure Limits</b>	
Local name	1-Метоксипропан-2-ол
OEL TWA	375 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
Remark	Кожа (възможна е значителна резорбция чрез кожата); • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)
<b>Croatia - Occupational Exposure Limits</b>	
Local name	1-Metoksi-2-propanol; monopropilen-glikol metil-eter
GVI (OEL TWA) [1]	375 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	100 ppm
KGVI (OEL STEL)	568 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	150 ppm
Remark	Direktiva: 2000/39/EZ

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<b>2-Propanol, 1-methoxy- (107-98-2)</b>	
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	375 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
OEL chemical category	Skin-potential for cutaneous absorption
<b>Denmark - Occupational Exposure Limits</b>	
Local name	1-Methoxy-2-propanol (Propylenglycolmonomethylether)
OEL TWA [1]	185 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
Remark	E (betyder, at stoffet har en EF-grænseværdi); H (betyder, at stoffet kan optages gennem huden)
OEL chemical category	Potential for cutaneous absorption
Regulatory reference	BEK nr 1054 af 28/06/2022
<b>Estonia - Occupational Exposure Limits</b>	
Local name	1-metoksü-2-propanool (propüleenglükool-monometüüleeter, o-metüülpropüleen-glükool)
OEL TWA	375 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
Remark	A (Naha kaudu kergesti imenduv aine), S (Sensibiliseeriv aine)
OEL chemical category	Skin notation, Sensitizer
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 15.05.2021, 1)
<b>France - Occupational Exposure Limits</b>	
Local name	1-Méthoxy-2-propanol (Ether méthylique du propylène-glycol) (1-Méthoxypropane-2-ol)
VME (OEL TWA)	188 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	375 mg/m <sup>3</sup>
VLE (OEL C/STEL) [ppm]	100 ppm
Remark	Valeurs réglementaires contraignantes; risque de pénétration percutanée
OEL chemical category	Risk of cutaneous absorption
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	1-Methoxy-2-propanol

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<b>2-Propanol, 1-methoxy- (107-98-2)</b>	
AGW (OEL TWA) [1]	370 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	100 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Peak exposure limitation factor	2(I)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
<b>Germany - Biological limit values (TRGS 903)</b>	
Local name	1-Methoxypropan-2-ol
Biological limit value	15 mg/l Parameter: 1-Methoxypropan-2-ol - Medium: urine - Sampling time: end of shift
Regulatory reference	TRGS 903
<b>Greece - Occupational Exposure Limits</b>	
Local name	Προπυλενογλυκολ-μεθυλαιθέρας
OEL TWA	360 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	1080 mg/m <sup>3</sup>
OEL STEL [ppm]	300 ppm
OEL chemical category	skin - potential for cutaneous absorption
Remark	Η ένδειξη «δέρμα» στις οριακές τιμές επαγγελματικής έκθεσης επισημαίνει το ενδεχόμενο σημαντικής διείσδυσης μέσω του δέρματος.
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Propylene glycol monomethyl ether [1-Methoxypropan2-ol]
OEL TWA [1]	375 mg/m <sup>3</sup>
OEL TWA [2]	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2021
<b>Italy - Occupational Exposure Limits</b>	
Local name	Metossiopropanolo-2,1-
OEL TWA	375 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
Remark	Cute
OEL chemical category	skin - potential for cutaneous absorption

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<b>2-Propanol, 1-methoxy- (107-98-2)</b>	
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	1-Méthoxypropane-2-ol
OEL TWA	375 mg/m <sup>3</sup>
OEL TWA [ppm]	100 ppm
OEL STEL	568 mg/m <sup>3</sup>
OEL STEL [ppm]	150 ppm
OEL chemical category	Possibility of significant uptake through the skin
Remark	Peau
Regulatory reference	Mémorial A N° 226 de 2021 concernant la protection de la sécurité et de la santé des salariés contre les risques liés à des agents chimiques sur le lieu de travail
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	1-Methoxy-2-propanol
TGG-8u (OEL TWA)	375 mg/m <sup>3</sup>
TGG-15min (OEL STEL)	563 mg/m <sup>3</sup>
Remark	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een H-aanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
MAC chemical category	Skin notation
Regulatory reference	Arbeidsomstandighedenregeling 2022
<b>Poland - Occupational Exposure Limits</b>	
Local name	1-Metoksypropan-2-ol
NDS (OEL TWA)	180 mg/m <sup>3</sup>
NDSch (OEL STEL)	360 mg/m <sup>3</sup>
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
<b>Portugal - Occupational Exposure Limits</b>	
Local name	1-Metoxi-2-propanol (PGME)
OEL TWA	375 mg/m <sup>3</sup> (indicative limit value)
OEL TWA [ppm]	100 ppm (indicative limit value)
OEL STEL	568 mg/m <sup>3</sup> (indicative limit value)
OEL STEL [ppm]	150 ppm (indicative limit value)
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	1-Metoxypropán-2-ol (propylénglykolmonometyléter)
NPHV (OEL TWA) [1]	375 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	100 ppm
NPHV (OEL STEL)	568 mg/m <sup>3</sup>



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NPHV (OEL STEL) [ppm]	150 ppm
NPHV (OEL C)	568 mg/m <sup>3</sup>
Remark	K - znamená, že faktor môže byť ľahko absorbovaný kožou
OEL chemical category	Potential for cutaneous absorption
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
<b>Spain - Occupational Exposure Limits</b>	
Local name	1-Metoxipropan-2-ol (Éter 1-metilico de propilenglicol)
VLA-ED (OEL TWA) [1]	375 mg/m <sup>3</sup> (indicative limit value)
VLA-ED (OEL TWA) [2]	100 ppm (indicative limit value)
VLA-EC (OEL STEL)	568 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	150 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
OEL chemical category	skin - potential for cutaneous absorption
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT
<b>Sweden - Occupational Exposure Limits</b>	
Local name	1-Metoxi-2-propanol
NGV (OEL TWA)	190 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	568 mg/m <sup>3</sup>
KTV (OEL STEL) [ppm]	150 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga)
OEL chemical category	Skin notation
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>1,3-Propanediamine, N-(3-aminopropyl)-N-dodecyl- ° (2372-82-9)</b>	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	0.05 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment:**

Avoid all unnecessary exposure.

##### 8.2.2.1. Eye and face protection

**Eye protection:**

Chemical goggles or safety glasses. Use eye protection according to EN 166. Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Wear protective gloves. Wear suitable gloves tested to EN374

##### 8.2.2.3. Respiratory protection

**Respiratory protection:**

Wear appropriate mask

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colorless to pale yellow
Odour	: Floral
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 8~10
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.98~1.05 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available

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Particle characteristics : Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional 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

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

<b>Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)</b>	
LD50 oral rat	2220 mg/kg
LC50 Inhalation - Rat	> 52 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 52000 mg/l
<b>Alcohols, C9-11, ethoxylated, liquids (68439-46-3)</b>	
LD50 dermal rabbit	> 2000 mg/kg
<b>2-Propanol, 1-methoxy- (107-98-2)</b>	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	13 g/kg
LC50 Inhalation - Rat	> 6 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 26315 mg/l

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<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
LD50 oral rat	1020 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	100 mg/l

<b>1,3-Propanediamine, N-(3-aminopropyl)-N-dodecyl- ° (2372-82-9)</b>	
LD50 oral rat	50 – 300 mg/kg

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May produce an allergic reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

<b>2-Propanol, 1-methoxy- (107-98-2)</b>	
LC50 - Fish [1]	> 4600 mg/l
EC50 - Crustacea [1]	23300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	23300 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 500 mg/l

<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
EC50 - Other aquatic organisms [2]	0.11 mg/l

<b>1,3-Propanediamine, N-(3-aminopropyl)-N-dodecyl- ° (2372-82-9)</b>	
LC50 - Fish [1]	0.431 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])

### 12.2. Persistence and degradability

<b>Tineco Pre-treat Formula</b>	
Persistence and degradability	Not established.

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### 12.3. Bioaccumulative potential

#### Tineco Pre-treat Formula

Bioaccumulative potential	Not established.
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#### Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)

Partition coefficient n-octanol/water (Log Pow)	4.49 Source: Quantitative Structure Activity Relation
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#### 2-Propanol, 1-methoxy- (107-98-2)

BCF - Fish [1]	< 2
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Partition coefficient n-octanol/water (Log Pow)	-0.49
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#### 1,2-Benzisothiazol-3(2H)-one (2634-33-5)

Partition coefficient n-octanol/water (Log Pow)	0.99 (at 20 °C (at pH 5))
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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### 15.1.2. National regulations

#### France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism
RG 66	Occupational rhinitis and asthma

#### Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen	: Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts is listed
SZW-lijst van mutagene stoffen	: Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed

#### Denmark

Danish National Regulations	: Pregnant/breastfeeding women working with the product must not be in direct contact with it
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### 15.2. Chemical safety assessment

No chemical safety assessment has been 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
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Effective concentration for 50 percent of test population (median effective concentration)
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)

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Abbreviations and acronyms:	
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH208	Contains 1,2-Benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.



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Full text of H- and EUH-statements:	
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.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.