Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



SWISS SILVER PROTECT 2180-10 - All variants

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

1.1 Product identifier

Product name : SWISS SILVER PROTECT 2180-10 - All variants

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

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word	Warning	
Hazard statements	H317 - May cause an allergic skin reaction.	
Precautionary statements		
Prevention	P280 - Wear protective gloves. P261 - Avoid breathing vapour.	
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.	
Storage	Not applicable.	
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	Contains: adipohydrazide; EO bis(benztriazolyl)phenylpropionat; 1,2-benzisothiazo (2H)-one and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	ol-3

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SECTION 2: Hazards identification

Supplemental label elements	: Warning! Hazardous respirable droplets may be formed when sprayed. Do not
	breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No.	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

1907/2006, Annex XIII

SECTION 3: Composition/information on ingredients

Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1]
REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8	<1	Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	<1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 1200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	ATE [Oral] = 1020 mg/kg Skin Sens. 1, H317: C ≥ 0.05% M [Acute] = 1	[1]
REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7	<0.025	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400	ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)] = 0.14 mg/l M [Acute] = 1000	[1]
	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0 REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8 REACH #: 01-000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6 REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0 ≤ 3 REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 ≤ 3 REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8 <1 REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8 <1 REACH #: 01-000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3 <1 REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0 <0.03 REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 2634-33-5 Index: 613-088-00-6 <0.025 REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 <0.025	REACH #: ≤3 Flam. Liq. 2, H225 01-2119457558-25 Eye Irrit. 2, H319 STOT SE 3, H336 CAS: 67-63-0 Index: 603-117-00-0 STOT SE 3, H336 REACH #: ≤3 Carc. 2, H351 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 REACH #: <1	Identifiers % Classification Limits, M-factors and ATEs REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0 ≤3 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 - REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 ≤3 Carc. 2, H351 (inhalation) - REACH #: 01-2119962900-36 EC: 213-999-5 CAS: 1071-93-8 <1

			Aquatic Chronic 1, H410	M [Chronic] = 10	
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9 Index: 613-167-00-5	<0.001	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 53 mg/ kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C \geq 0.6% Eye Dam. 1, H318: C \geq 0.6% Eye Irrit. 2, H319: 0.06% \leq C $<$ 0.6% Skin Sens. 1, H317: C \geq 0.0015% M [Acute] = 100 M [Chronic] = 100	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form

containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid me	easures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It
	may be dangerous to the person providing aid to give mouth-to-mouth resuscitation Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important sympton	ns and effects, both acute and delayed
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident i there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, prote	ective equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: ACCIO	SECTION 6: Accidental release measures		
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).		
6.3 Methods and materia	I for containment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.		
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.		

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

See Section 13 for additional waste treatment information.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations

: Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

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Product/ingredient name	Exposure limit values
Propan-2-ol	Regulation on Limit Values - MAC (Austria, 4/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours. PEAK: 800 ppm, 4 times per shift, 15 minutes. PEAK: 2000 mg/m ³ , 4 times per shift, 15 minutes.
2-Butoxyethanol	 Regulation on Limit Values - MAC (Austria, 4/2021). Absorbe through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. PEAK: 40 ppm, 4 times per shift, 30 minutes. PEAK: 200 mg/m³, 4 times per shift, 30 minutes.
eaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chlord 2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di- hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.
Propan-2-ol	TWA: 0.05 mg/m ³ 8 hours. Limit values (Belgium, 5/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours. STEL: 400 ppm 15 minutes.
2-Butoxyethanol	STEL: 1000 mg/m ³ 15 minutes. Limit values (Belgium, 5/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Propan-2-ol	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 980 mg/m ³ 8 hours. Limit value 15 min: 1225 mg/m ³ 15 minutes.
2-Butoxyethanol	 Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Absorbed through skin. Limit value 8 hours: 98 mg/m³ 8 hours. Limit value 15 min: 246 mg/m³ 15 minutes. Limit value 15 min: 50 ppm 15 minutes. Limit value 8 hours: 20 ppm 8 hours.
Propan-2-ol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). STELV: 1250 mg/m ³ 15 minutes. STELV: 500 ppm 15 minutes. ELV: 999 mg/m ³ 8 hours. ELV: 400 ppm 8 hours.
Propylene glycol	Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). ELV: 10 mg/m ³ 8 hours. Form: only particles ELV: 474 mg/m ³ 8 hours. Form: total vapour and particles
2-Butoxyethanol	ELV: 150 ppm 8 hours. Form: total vapour and particles Ministry of Economy, Labour and Entrepreneurship ELV/ STELV (Croatia, 1/2021). Absorbed through skin. STELV: 246 mg/m ³ 15 minutes. STELV: 50 ppm 15 minutes. ELV: 98 mg/m ³ 8 hours. ELV: 20 ppm 8 hours.
2-Butoxyethanol	Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours.

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Propan-2-ol 2-Butoxyethanol	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m ³ 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m ³ 15 minutes.
Propan-2-ol	STEL: 40.8 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed
2-Butoxyethanol	 through skin. TWA: 200 ppm 8 hours. TWA: 490 mg/m³ 8 hours. STEL: 980 mg/m³ 15 minutes. STEL: 400 ppm 15 minutes. Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.
Propan-2-ol	Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m ³ 15 minutes.
2-Butoxyethanol	 STEL: 250 ppm 15 minutes. Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 98 mg/m³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m³ 15 minutes. STEL: 50 ppm 15 minutes.
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Propan-2-ol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 620 mg/m ³ 15 minutes.
2-Butoxyethanol	Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 250 mg/m ³ 15 minutes.
Propan-2-ol	Ministry of Labor (France, 10/2022). Notes: Permissible limit values (circulars) STEL: 400 ppm 15 minutes. STEL: 980 mg/m ³ 15 minutes.
2-Butoxyethanol	Ministry of Labor (France, 10/2022). Absorbed through skin. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) TWA: 10 ppm 8 hours. TWA: 49 mg/m ³ 8 hours.
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	STEL: 246 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
Propan-2-ol	TRGS 900 OEL (Germany, 6/2022).
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours.
	PEAK: 400 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022).
	TWA: 200 ppm 8 hours.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ , 4 times per shift, 15 minutes.
-Butoxyethanol	TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.
	TWA: 49 mg/m ³ 8 hours.
	PEAK: 98 mg/m ³ 15 minutes.
	TWA: 10 ppm 8 hours.
	PEAK: 20 ppm 15 minutes.
	DFG MAC-values list (Germany, 7/2022). Absorbed through skin.
	TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes.
	TWA: 49 mg/m ³ 8 hours.
	PEAK: 98 mg/m ³ , 4 times per shift, 15 minutes.
,2-benzisothiazol-3(2H)-one	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
yrithione zinc	DFG MAC-values list (Germany, 7/2022). Absorbed through
	skin.
ropan-2-ol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021).
	TWA: 400 ppm 8 hours.
	TWA: 980 mg/m ³ 8 hours.
	STEL: 500 ppm 15 minutes.
	STEL: 1225 mg/m ³ 15 minutes.
-Butoxyethanol	Presidential Decree 307/1986: Occupational exposure limit
	values (Greece, 9/2021). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m ³ 8 hours.
ropan-2-ol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 500 mg/m ³ 8 hours.
	PEAK: 1000 mg/m ³ 15 minutes.
	PEAK: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.
-Butoxyethanol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed
Butoxyethanol	through skin. Skin sensitiser. Inhalation sensitiser.
	TWA: 98 mg/m ³ 8 hours.
	PEAK: 246 mg/m ³ 15 minutes.
	PEAK: 50 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
-Butoxyethanol	Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021
,	Absorbed through skin.
	STEL: 246 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 100 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
ropan-2-ol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes:
	Advisory Occupational Exposure Limit Values (OELVs)
	OELV-8hr: 200 ppm 8 hours.
	OELV-15min: 400 ppm 15 minutes.
ropylene glycol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 10 mg/m ³ 8 hours. Form: particulate
	OELV-8hr: 470 mg/m ³ 8 hours. Form: vapour and particulates
	OELV-8hr: 150 ppm 8 hours. Form: vapour and particulates

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2-Butoxyethanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 20 ppm 8 hours. OELV-8hr: 98 mg/m ³ 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m ³ 15 minutes.
2-Butoxyethanol	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m ³ 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m ³ 15 minutes.
Propan-2-ol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 350 mg/m³ 8 hours. STEL: 600 mg/m³ 15 minutes.
Propylene glycol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). TWA: 7 mg/m ³ 8 hours.
2-Butoxyethanol	Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Propan-2-ol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 350 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. STEL: 600 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes.
Propylene glycol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). TWA: 7 mg/m ³ 8 hours.
2-Butoxyethanol	Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). Absorbed through skin. TWA: 50 mg/m ³ 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m ³ 15 minutes. STEL: 20 ppm 15 minutes.
2-Butoxyethanol	Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
2-Butoxyethanol	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
2-Butoxyethanol	Ministry of Social Affairs and Employment, Legal limit value (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 100 mg/m ³ 8 hours. STEL,15-min: 246 mg/m ³ 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes.
Propan-2-ol	FOR-2011-12-06-1358 (Norway, 12/2022). TWA: 100 ppm 8 hours. TWA: 245 mg/m ³ 8 hours.
Propylene glycol	FOR-2011-12-06-1358 (Norway, 12/2022). TWA: 79 mg/m³ 8 hours.
2-Butoxyethanol	TWA: 25 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through

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		skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m ³ 8 hours.
	Propan-2-ol	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.
	Propylene glycol	TWA: 900 mg/m ³ 8 hours. STEL: 1200 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland,
	2-Butoxyethanol	2/2021). TWA: 100 mg/m ³ 8 hours. Form: vapor and inhalable fraction Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. STEL: 200 mg/m ³ 15 minutes.
	Propan-2-ol 2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014). TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours.
	Propan-2-ol	HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 200 mg/m ³ 8 hours. VLA: 81 ppm 8 hours. Short term: 500 mg/m ³ 15 minutes.
	2-Butoxyethanol	 Short term: 203 ppm 15 minutes. HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). Absorbed through skin. VLA: 98 mg/m³ 8 hours. VLA: 20 ppm 8 hours. Short term: 246 mg/m³ 15 minutes. Short term: 50 ppm 15 minutes.
	Propan-2-ol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 500 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. STEL: 1000 mg/m ³ 15 minutes. STEL: 400 ppm 15 minutes.
	2-Butoxyethanol	Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 98 mg/m ³ 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.
	oyrithione zinc	Government regulation SR c. 355/2006 (Slovakia, 9/2020). [Zinc and its inorganic compounds] TWA: 2 mg/m ³ , (Zinc and its inorganic compounds) 8 hours. Form: Inhalable fraction TWA: 0.1 mg/m ³ , (Zinc and its inorganic compounds) 8 hours. Form: Respirable fraction
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Propan-2-ol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 500 mg/m ³ 8 hours.
	TWA: 200 ppm 8 hours. KTV: 1000 mg/m³, 4 times per shift, 15 minutes.
2-Butoxyethanol	KTV: 400 ppm, 4 times per shift, 15 minutes. Regulation on protection of workers from the risks related to
	exposure to chemical substances at work (Slovenia, 5/2021). Absorbed through skin.
	TWA: 98 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours. KTV: 246 mg/m ³ , 4 times per shift, 15 minutes.
Propan-2-ol	KTV: 50 ppm, 4 times per shift, 15 minutes. National institute of occupational safety and health (Spain,
	4/2022).
	TWA: 200 ppm 8 hours. TWA: 500 mg/m ³ 8 hours.
	STEL: 400 ppm 15 minutes. STEL: 1000 mg/m ³ 15 minutes.
2-Butoxyethanol	National institute of occupational safety and health (Spain,
	4/2022). Absorbed through skin.
	TWA: 20 ppm 8 hours. TWA: 98 mg/m³ 8 hours.
	STEL: 245 mg/m ³ 15 minutes.
Propan-2-ol	STEL: 50 ppm 15 minutes. Work environment authority Regulation 2018:1 (Sweden,
	9/2021).
	TWA: 150 ppm 8 hours. TWA: 350 mg/m ³ 8 hours.
	STEL: 250 ppm 15 minutes. STEL: 600 mg/m³ 15 minutes.
2-Butoxyethanol	Work environment authority Regulation 2018:1 (Sweden,
	9/2021). Absorbed through skin. TWA: 10 ppm 8 hours.
	TWA: 50 mg/m ³ 8 hours.
	STEL: 50 ppm 15 minutes. STEL: 246 mg/m ³ 15 minutes.
Propan-2-ol	SUVA (Switzerland, 1/2023).
	TWA: 200 ppm 8 hours. TWA: 500 mg/m³ 8 hours.
	STEL: 400 ppm 15 minutes.
2-Butoxyethanol	STEL: 1000 mg/m ³ 15 minutes. SUVA (Switzerland, 1/2023). Absorbed through skin.
	TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours.
	STEL: 20 ppm 15 minutes.
reaction mass of: 5-chloro-2-methyl-	STEL: 98 mg/m ³ 15 minutes. SUVA (Switzerland, 1/2023). Skin sensitiser.
4-isothiazolin-3-one [EC no. 247-500-7] and	
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	
	STEL: 0.4 mg/m ³ 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m ³ 8 hours. Form: Inhalable fraction
Propan-2-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes.
	TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours.
Dipropyleneglycolmethylether	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin. TWA: 308 mg/m³ 8 hours.
2 Rutovyothanal	TWA: 50 ppm 8 hours.
2-Butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
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SECTION 6. Exposure controls/personal protection			
through skin.			
STEL: 50 ppm 15 minutes.			
TWA: 25 ppm 8 hours.			
STEL: 246 mg/m ³ 15 minutes.			
TWA: 123 mg/m ³ 8 hours.			
EH40/2005 WELs (United Kingdom (UK), 1/2020).			
TWA: 10 ppm 8 hours.			
STEL: 15 ppm 15 minutes.			
TWA: 67.5 mg/m ³ 8 hours.			
STEL: 101.2 mg/m ³ 15 minutes.			
EH40/2005 WELs (United Kingdom (UK), 1/2020).			
STEL: 2.5 mg/m ³ 15 minutes.			
STEL: 2 ppm 15 minutes.			
TWA: 2 ppm 8 hours.			
TWA: 2.5 mg/m ³ 8 hours.			

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Propan-2-ol	 Ministry of Economy, Labour and Entrepreneurship ILV/STEL (Croatia, 10/2018) BEI: 50 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 50 mg/l, acetone [in blood]. Sampling time: at the end of the work shift. BEI: 0.86 µmol/l, acetone [in urine]. Sampling time: at the end of the work shift. BEI: 0.86 µmol/l, acetone [in blood]. Sampling time: at the end of the work shift.
No exposure indices known.	
2-Butoxyethanol	Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) Biological limit values: 0.17 mmol/mmol creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week. Biological limit values: 200 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: the end of the shift at the end of the week.
No exposure indices known.	
Propan-2-ol	 DFG BEI-values list (Germany, 7/2022) BEI: 25 mg/l, acetone [in blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 25 mg/l, acetone [in whole blood]. Sampling time: end of exposure or end of shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: end of exposure or end of shift.
2-Butoxyethanol	DFG BEI-values list (Germany, 7/2022) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in

	urine]. Sampling time: end of exposure or end of shift / for long- term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2022) BEI: 150 mg/g creatinine, butoxy acetic acid (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
No exposure indices known.	
Propan-2-ol	5/2020. (II. 6.) ITM Decree (Hungary, 12/2022) BEI: 430 μmol/l, acetone [in urine]. Sampling time: at the end of the shift. BEI: 25 mg/l, acetone [in urine]. Sampling time: at the end of the shift.
No exposure indices known.	
Propan-2-ol	NAOSH (Ireland, 1/2011) BMGV: 40 mg/I, acetone [in urine]. Sampling time: end of shift at end of workweek.
2-Butoxyethanol	NAOSH (Ireland, 1/2011) BMGV: 200 mg/g creatinine, BAA [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
No exposure indices known.	
Propan-2-ol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at the end of the workweek.
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
Propan-2-ol	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2020) OBLV: 50 mg/l, acetone [in urine]. Sampling time: end of shift.
No exposure indices known.	
Propan-2-ol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 25 mg/l, acetone [in urine]. Sampling time: at the end of the work shift. BAT: 25 mg/l, acetone [in blood]. Sampling time: at the end of the work shift.
2-Butoxyethanol	Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) BAT: 150 mg/g creatinine, butoxyacetic acid (after hydrolysis) [in urine]. Sampling time: at the end of the work shift, at long-term exposure: at the end of the work shift after several consecutive workdays.
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SECTION 8: Exposure co	ntrols/personal protection
Propan-2-ol	National institute of occupational safety and health (Spain, 4/2022) VLB: 40 mg/l, acetone [in urine]. Sampling time: end of workweek.
2-Butoxyethanol	 National institute of occupational safety and health (Spain, 4/2022) VLB: 200 mg/g creatinine, butoxyacetic acid [in urine]. Sampling
	time: end of shift.
No exposure indices known.	
Propan-2-ol	 SUVA (Switzerland, 1/2023) BEI: 0.4 mmol/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 25 mg/l, acetone [in blood]. Sampling time: immediately after exposure or after working hours. BEI: 0.4 mmol/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 25 mg/l, acetone [in urine]. Sampling time: immediately after exposure or after working hours.
2-Butoxyethanol	SUVA (Switzerland, 1/2023) BEI: 150 mg/g creatinine, 2-butoxy acetic acid (after hydrolisis) [in urine]. Sampling time: immediately after exposure or after working hours. In case of long-term exposure: after more than one shift.
2-Butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift.
procedures Eur ass value atm of e (We for	ference should be made to monitoring standards, such as the following: ropean Standard EN 689 (Workplace atmospheres - Guidance for the sessment of exposure by inhalation to chemical agents for comparison with limit ues and measurement strategy) European Standard EN 14042 (Workplace nospheres - Guide for the application and use of procedures for the assessment exposure to chemical and biological agents) European Standard EN 482 orkplace atmospheres - General requirements for the performance of procedures the measurement of chemical agents) Reference to national guidance cuments for methods for the determination of hazardous substances will also be

DNELs/DMELs

Туре	Exposure	Value	Population	Effects
DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	89 mg/m ³	General	Systemic
DNEL	Long term Dermal	319 mg/kg bw/dav	General	Systemic
DNEL	Long term Inhalation	500 mg/m ³	Workers	Systemic
DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	17.5 mg/m ³	Workers	Systemic
DNEL	Long term Oral	6.3 mg/kg bw/day	General population	Systemic
DNEL	Short term Oral	26.7 mg/ kg bw/day	General population	Systemic
DNEL	Long term Inhalation	59 mg/m ³	General population	Systemic
DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
DNEL	Short term Inhalation	147 mg/m³	General population	Local
DNEL	Short term Inhalation	246 mg/m ³	Workers	Local
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELLong term OralDNELLong term InhalationDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term OralDNELShort term OralDNELLong term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term InhalationDNELShort term	DNELLong term Oral26 mg/kg bw/dayDNELLong term89 mg/m³Inhalation319 mg/kg bw/dayDNELLong term Dermal319 mg/kg bw/dayDNELLong term Dermal300 mg/m³Inhalation500 mg/m³DNELLong term Dermal888 mg/kg bw/dayDNELLong term Dermal888 mg/kg bw/dayDNELLong term Dermal888 mg/kg bw/dayDNELLong term Oral6.3 mg/kg bw/dayDNELLong term Oral6.3 mg/kg bw/dayDNELShort term Oral26.7 mg/ kg bw/dayDNELLong term Inhalation59 mg/m³DNELLong term Inhalation98 mg/m³DNELShort term147 mg/m³DNELShort term246 mg/m³	DNELLong term Oral26 mg/kg bw/dayGeneral populationDNELLong term89 mg/m³General populationDNELLong term Dermal319 mg/kg bw/dayGeneral populationDNELLong term Dermal319 mg/kg bw/dayGeneral populationDNELLong term500 mg/m³WorkersDNELLong term Dermal888 mg/kg bw/dayWorkersDNELLong term Dermal888 mg/kg bw/dayWorkersDNELLong term Oral6.3 mg/kg bw/dayGeneral populationDNELLong term Oral6.3 mg/kg bw/dayGeneral populationDNELShort term Oral59 mg/m³General populationDNELLong term Inhalation59 mg/m³General populationDNELLong term Inhalation98 mg/m³General populationDNELShort term147 mg/m³General populationDNELShort term246 mg/m³Workers

required.

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	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation	·_• ·	population	-,
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m ³		- ,
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
·,_ · · · · · · · · · · · · · · · · · ·			kg bw/day	population	-,
	DNEL	Long term Dermal	0.966 mg/	Workers	Systemic
			kg bw/day		-,
	DNEL	Long term	1.2 mg/m ³	General	Systemic
		Inhalation	Ū	population	-
	DNEL	Long term	6.81 mg/m ³	Workers	Systemic
		Inhalation	Ū.		-
pyrithione zinc	DNEL	Long term Dermal	0.01 mg/	Workers	Systemic
			kg bw/day		
reaction mass of: 5-chloro-2-methyl-	DNEL	Long term	0.02 mg/m ³	General	Local
4-isothiazolin-3-one [EC no.		Inhalation		population	
247-500-7] and 2-methyl-2H-					
isothiazol-3-one [EC no. 220-239-6]					
(3:1)					
	DNEL	Long term	0.02 mg/m ³	Workers	Local
		Inhalation		_	
	DNEL	Short term	0.04 mg/m ³		Local
		Inhalation		population	
	DNEL	Short term	0.04 mg/m ³	Workers	Local
		Inhalation		•	
	DNEL	Long term Oral	0.09 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Oral	0.11 mg/	General	Systemic
			kg bw/day	population	

PNECs

No PNECs available

8.2 Exposure controls					
Appropriate engineering controls	:	: Good general ventilation should be sufficient to control worker exposure to contaminants.			
Individual protection measu	res				
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products before eating, smoking and using the lavatory and at the end of the working Appropriate techniques should be used to remove potentially contaminated of Contaminated work clothing should not be allowed out of the workplace. Wa contaminated clothing before reusing. Ensure that eyewash stations and sat showers are close to the workstation location.			
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a ris assessment indicates this is necessary to avoid exposure to liquid splashes, mis gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses v side-shields.			
Skin protection					
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommendations : Wear suitable gloves tested to EN374.			
		> 8 hours (breakthrough time):	Nitrile gloves. thickness > 0.3 mm		
		Not recommended	polyvinyl alcohol (PVA) gloves		

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Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>								
Physical state	1	: Liquid.						
Colour	1	: Various						
Odour	1	: Slight						
Odour threshold	1	: Not available.						
Melting point/freezing point	1	Not available						
Initial boiling point and boiling range	:							
Ingredient name		°C		°F	Method			
Propan-2-ol		83		181.4				
water		100		212				
Flammability	:	Not available		ł				
Lower and upper explosion limit	:	Lower: 2% Upper: 12.6%	/ 0					
Flash point	:	Closed cup: 3	>100°C (>21	2°F)				
Auto-ignition temperature								
Auto-ignition temperature Ingredient name		°C		°F	Method			
		° C 371		° F 699.8	Method			
Ingredient name					Method			
Ingredient name Propylene glycol Propan-2-ol		371		699.8	Method			
Ingredient name Propylene glycol Propan-2-ol Decomposition temperature		371 456		699.8 852.8	Method			
Ingredient name Propylene glycol Propan-2-ol Decomposition temperature pH	:	371 456 Not available	onc. (% w/w):	699.8 852.8	Method			
Ingredient name Propylene glycol Propan-2-ol Decomposition temperature pH Viscosity	:	371 456 Not available 7.4 to 7.8 [Co	onc. (% w/w):	699.8 852.8	Method			
Ingredient name Propylene glycol Propan-2-ol Decomposition temperature pH Viscosity	:	371 456 Not available 7.4 to 7.8 [Co	onc. (% w/w):	699.8 852.8	Method			
Propylene glycol Propan-2-ol Decomposition temperature pH Viscosity Solubility(ies)	::	371 456 Not available 7.4 to 7.8 [Co	onc. (% w/w):	699.8 852.8	Method			
Ingredient name Propylene glycol Propan-2-ol Decomposition temperature pH Viscosity Solubility(ies) Not available.	::	371 456 Not available 7.4 to 7.8 [Co Not available Not available	onc. (% w/w):	699.8 852.8	Method			

	Va	apour Pres	sure at 20°C	Vapour pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Propan-2-ol	33.00268	4.4				
water	17.5	2.3				
elative density	: Not	available.				
ensity	: 1.1	g/cm³				
apour density	: Not	available.				
xplosive properties	: Not	available.				
xidising properties	: Not	available.				
article characteristics						
Median particle size	: Not	applicable.				

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
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

Product/ingredient name	Result	Species	Dose	Exposure
Propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	140 mg/m³	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	LD50 Oral	Rat	53 mg/kg	-
3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-				
3-one [EC no. 220-239-6] (3: 1)				

Conclusion/Summary : Based on

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

Acute toxicity estimates

Route	ATE value
Inhalation (vapours)	2142.86 mg/l

Irritation/Corrosion

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SECTION 11: Toxicological information

	Result	Species	Score	Exposure	Observation
Propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Even Severe irritent	Rabbit		mg	
	Eyes - Severe irritant Skin - Mild irritant	Rabbit	-	100 mg 500 mg	-
1,2-benzisothiazol-3(2H)-one		Human		48 hours 5 %	-
reaction mass of: 5-chloro-	Skin - Severe irritant	Human		0.01 %	_
2-methyl-4-isothiazolin-		Tanan		0.01 /0	
3-one [EC no. 247-500-7]					
and 2-methyl-2H-isothiazol-					
3-one [EC no. 220-239-6] (3:					
1)					
Conclusion/Summary	: Based on available data, t	he classification o	riteria are	not met.	
Sensitisation					
Conclusion/Summary	: May cause an allergic skir	reaction.			

Mutagenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Chapific torget ergen toxic	

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Propan-2-ol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pyrithione zinc	Category 1	-	-

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristicsEye contact: No specific data.

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SECTION 11: Toxico	lo	gical information
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	<u>cts</u>	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available. 11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200000 µg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
2-Butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 0.36 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
	Acute EC50 3.7 mg/l	Daphnia - Daphnia Magna	48 hours
	Acute LC50 1.9 mg/l Fresh water	Fish - Onorhynchus Mykiss	96 hours
	Acute NOEC 0.15 mg/l Marine water	Algae - Skeletonema Costatum	72 hours
pyrithione zinc	Acute EC50 0.51 μg/Ι Marine water	Algae - Thalassiosira pseudonana	96 hours
	Acute EC50 38 µg/l Fresh water	Crustaceans - <i>Ilyocypris</i> <i>dentifera</i>	48 hours
	Acute EC50 8.25 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 2.68 ppb Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 0.36 µg/l Marine water	Algae - Thalassiosira	96 hours
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SECTION 12: Ecological information				
	Chronic NOEC 2.7 ppb Fresh water	<i>pseudonana</i> Daphnia - <i>Daphnia magna</i>	21 days	
Conclusion/Summary	: Based on available data, the classifi	cation criteria are not met.		

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
1,2-benzisothiazol-3(2H)-one	EU	24 % - 28 days		-	-
Conclusion/Summary	: This product ha	s not been tested for	biodegrada	ation.	·
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
1,2-benzisothiazol-3(2H)-one	-		-		Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Propan-2-ol	0.05	-	Low
2-Butoxyethanol	0.81	-	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
pyrithione zinc	0.9	11	Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment meth	nods
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 08.01.19
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

	ADR/RID	ADN	IMDG	ΙΑΤΑ	
14.1 UN number or ID number	Not regulated.	9006	UN3082	UN3082	
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (titanium dioxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (titanium dioxide)	
14.3 Transport hazard class(es)	-	9	9		
14.4 Packing group	-	-	111	111	
14.5 Environmental hazards	No.	Yes.	Yes.	Yes.	
Additional informa	tion		1		
ADN	: The produce vessels.	uct is only regulated as a c	langerous good when tra	insported in tank	
IMDG	: This prod or ≤5 kg,	uct is not regulated as a d provided the packagings r .4 to 4.1.1.8.			
ΙΑΤΑ	or ≤5 kg,	uct is not regulated as a d provided the packagings r 1 and 5.0.2.8.			
14.6 Special precau user	upright ar	t within user's premises nd secure. Ensure that per of an accident or spillage.	sons transporting the pro		
14.7 Maritime trans bulk according to II instruments		ant/applicable due to natur	re of the product.		

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
SWISS SILVER PROTECT 2180-10	≥90	3

Labelling

Other EU regulations

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(integrated pollution prevention and control) - Air	: Listed		
Industrial emissions (integrated pollution prevention and control) - Water	: Listed		
Explosive precursors Ozone depleting substance	: Not applicable. <u>es (1005/2009/EU)</u>		
Not listed.			
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/EU)</u>		
Persistent Organic Pollutar Not listed.	<u>nts</u>		
<u>Seveso Directive</u> This product is not controlled	under the Seveso Directive.		
lational regulations			
Austria			
VbF class	: Not regulated.		
Limitation of the use of organic solvents	: Permitted.		
Czech Republic			
Storage code	: IV		
<u>Denmark</u>			
Danish fire class	: IV-1		
Executive Order No. 1795/2	015		
Ingredient name		Annex I Section A	Annex I Section B
Propan-2-ol titanium dioxide		Listed Listed	-
	: 0-1		
MAL-code Protection based on MAL	 : 0-1 : According to the regulations on we stipulations apply to the use of per 	ork involving coded p	
MAL-code	: According to the regulations on wo	ork involving coded ports involving coded ports and protective equit I work that may result in worn when soiling is so against contact with the spattering if a full mast	pment: n soiling. Apron/ great that regular work ne product. A face < is not required. In this
MAL-code	: According to the regulations on we stipulations apply to the use of per General: Gloves must be worn for al coveralls/protective clothing must be clothes do not adequately protect skir shield must be worn in work involving	ork involving coded part sonal protective equi l work that may result in worn when soiling is so against contact with the spattering if a full mash protection is not requir re is return spray, the fo	pment: great that regular work product. A face is not required. In this ed.
MAL-code	: According to the regulations on we stipulations apply to the use of per General: Gloves must be worn for al coveralls/protective clothing must be clothes do not adequately protect skir shield must be worn in work involving case, other recommended use of eye In all spraying operations in which the respiratory protection and arm protect	ork involving coded pa sonal protective equi I work that may result in worn when soiling is so a against contact with th spattering if a full mash protection is not requir re is return spray, the fa cors/apron/coveralls/pro	pment: great that regular work re product. A face is not required. In this ed. ollowing must be worn: tective clothing as
MAL-code	 According to the regulations on we stipulations apply to the use of per General: Gloves must be worn for all coveralls/protective clothing must be of clothes do not adequately protect skir shield must be worn in work involving case, other recommended use of eye In all spraying operations in which the respiratory protection and arm protect appropriate or as instructed. MAL-code: 0-1 Application: When spraying in exist 	ork involving coded pa sonal protective equi I work that may result in worn when soiling is so a against contact with th spattering if a full mash protection is not requir re is return spray, the fa cors/apron/coveralls/pro	pment: great that regular work re product. A face is not required. In this ed. ollowing must be worn: tective clothing as
MAL-code	 According to the regulations on we stipulations apply to the use of per General: Gloves must be worn for al coveralls/protective clothing must be clothes do not adequately protect skir shield must be worn in work involving case, other recommended use of eye In all spraying operations in which the respiratory protection and arm protect appropriate or as instructed. MAL-code: 0-1 Application: When spraying in existing spray zone. 	ork involving coded parts sonal protective equi I work that may result in worn when soiling is so a against contact with the spattering if a full mash protection is not requir re is return spray, the fa- cors/apron/coveralls/pro-	pment: n soiling. Apron/ great that regular work he product. A face k is not required. In this ed. collowing must be worn: tective clothing as

		During all spraying where atomisation occu operator is inside the spray zone and durin or booth.	
		- Full mask with combined filter, coveralls a	and hood must be worn.
		Drying: Items for drying/drying ovens that rack trolleys, etc, must be equipped with a fumes from wet items from passing throug	mechanical exhaust system to prevent
		Polishing: When polishing treated surface When machine grinding, eye protection mu worn.	
		Caution The regulations contain other stip	oulations in addition to the above.
		*See Regulations.	
Restrictions on use	:	Not to be used by professional users below Working Environment Authorities Executive	
List of undesirable substances	:	Not listed	
Carcinogenic waste	:	Waste containers must be labeled: Contain by Danish working environment legislation	
<u>Finland</u>			
France			
Social Security Code, Articles L 461-1 to L 461-7		Propan-2-ol 2-Butoxyethanol	RG 84 RG 84
Reinforced medical surveillance	:	Act of July 11, 1977 determining the list of medical surveillance: not applicable	activities which require reinforced
<u>Germany</u>			
Storage class (TRGS 510) Hazardous incident ordina			
		Inder the Germany Hazardous Incident Ordir	ance
Hazard class for water		3	
Technical instruction on air quality control		TA-Luft Number 5.2.5: 4.6%	
AOX	:	The product contains organically bound ha value in waste water.	logens and can contribute to the AOX
<u>Italy</u>			
D.Lgs. 152/06	1	Not determined.	
<u>Netherlands</u>			
Water Discharge Policy (ABM)	:	Z(1) Non biodegradable substances with h environment (carcinogenicity/ mutagenicity toxicity or persistence). Decontamination e	// reprotoxicity/ bioacumulative potential
<u>Norway</u>		· ·	
<u>Sweden</u>			
<u>Switzerland</u>			
VOC content	:	Exempt.	
nternational regulations Themical Weapon Convent	ion	List Schedules I, II & III Chemicals	
Not listed.			
<u>Montreal Protocol</u>			
Not listed.			

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
-	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H372	Causes 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.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Carc. 2	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 CARCINOGENICITY - Category 2 SERIOUS EVE DAMAGE/EVE IRRITATION - Category 1
•	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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SECTION 16: Other information		
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B	
Skin Corr 1C	SKIN COPPOSION/IPPITATION Catagony 10	

Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1	SKIN SENSITISATION - Category 1	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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