# SAFETY DATA SHEET



Label No : 85662

DRYWOOD WOODSTAIN VV SG - BASE T

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

1.1 Product identifier

: DRYWOOD WOODSTAIN VV SG - BASE T **Product name** 

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

**Product 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 responsible for this SDS

: Prod-safe@teknos.com

**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

Aquatic Chronic 3, H412

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.

H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

: P103 - Read carefully and follow all instructions. **General** 

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

**Prevention** : P280 - Wear protective gloves.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.

**Storage** : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal** 

national and international regulations.

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# **SECTION 2: Hazards identification**

**Hazardous ingredients** 

: Contains: 3-iodo-2-propynyl-butyl carbamate; 1,2-benzisothiazol-3(2H)-one; 4,5-dichloro-2-octyl-2H-isothiazol-3-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)

Supplemental label

2.3 Other hazards

elements

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

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

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do not result in classification

: None known.

vPvB.

# SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤3	Eye Irrit. 2, H319	-	[1] [2]
2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤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]
3-iodo-2-propynyl-butyl carbamate	EC: 259-627-5 CAS: 55406-53-6 Index: 616-212-00-7	≤0.98	Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 400 mg/kg ATE [Inhalation (dusts and mists)] = 0.67 mg/l M [Acute] = 10 M [Chronic] = 1	[1]
1,2-benzisothiazol-3(2H)- one	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]
Bronopol	EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8	≤0.039	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	ATE [Oral] = 307 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 10	[1]
4,5-dichloro-2-octyl-2H-	EC: 264-843-8	≤0.015	Acute Tox. 4, H302	ATE [Oral] = 567	[1]

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#### SECTION 3: Composition/information on ingredients isothiazol-3-one CAS: 64359-81-5 Acute Tox. 2, H330 mg/kg Index: 613-335-00-8 Skin Corr. 1, H314 ATE [Inhalation Eye Dam. 1, H318 (dusts and mists)]

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)			Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	= 0.16 mg/l Skin Corr. 1, H314: C ≥ 5% Skin Irrit. 2, H315: 0.025% ≤ C < 5% Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: 0.025% ≤ C < 3% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100	
statements declared	2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6]	<0.001	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  See Section 16 for	kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: C ≥ 0.6% Eye Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: 0.06% ≤ C < 0.6% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100	[1]

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.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**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.

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.

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# **SECTION 4: First aid measures**

#### 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.

#### **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 symptoms and effects, both acute and delayed

# Over-exposure signs/symptoms

: No specific data. **Eye contact** Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

> irritation redness

Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

: No specific treatment. **Specific treatments** 

# **SECTION 5: Firefighting 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

**Hazardous combustion** products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

# 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 if 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.

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# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective 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".

### **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). Water polluting material. May be harmful to the environment if released in large quantities.

# 6.3 Methods and material 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. See Section 13 for additional waste treatment information.

# 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).

#### 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. Avoid release to the environment. 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.

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### 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)

: Not available. Recommendations

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# **SECTION 7: Handling and storage**

Industrial sector specific : Not available. solutions

# **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**

Product/ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 10 ppm 8 hours.
	TWA: 67.5 mg/m³ 8 hours.
	PEAK: 15 ppm, 4 times per shift, 15 minutes. PEAK: 101.2 mg/m³, 4 times per shift, 15 minutes.
2-Butoxyethanol	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
2 Butoxyctrianor	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.
reaction mass of: 5-chloro-2-methyl-	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-
4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no.	2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-di-
220-239-6] (3:1)	hydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.
220 230 0] (0.1)	TWA: 0.05 mg/m <sup>3</sup> 8 hours.
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2-(2-butoxyethoxy)ethanol	Limit values (Belgium, 5/2021). STEL: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
	TWA: 67.5 mg/m³ 8 hours.
	STEL: 101.2 mg/m³ 15 minutes.
2-Butoxyethanol	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 20 ppm 8 hours.
	TWA: 98 mg/m³ 8 hours.
	STEL: 50 ppm 15 minutes.
	STEL: 246 mg/m³ 15 minutes.
2-(2-butoxyethoxy)ethanol	Ministry of Labour and Social Policy and the Ministry of
	Health - Ordinance No 13/2003. (Bulgaria, 6/2021). Limit value 8 hours: 67.5 mg/m³ 8 hours.
	Limit value 15 min: 101.2 mg/m³ 15 minutes.
	Limit value 15 min: 15 ppm 15 minutes.
	Limit value 8 hours: 10 ppm 8 hours.
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.
2-(2-butoxyethoxy)ethanol	Ministry of Economy, Labour and Entrepreneurship ELV/
2 (2 batoxyotrioxy)otriarior	STELV (Croatia, 1/2021).
	STELV: 101.2 mg/m³ 15 minutes.
	STELV: 15 ppm 15 minutes.
	ELV: 67.5 mg/m³ 8 hours.
	ELV: 10 ppm 8 hours.
2-Butoxyethanol	Ministry of Economy, Labour and Entrepreneurship ELV/
	STELV (Croatia, 1/2021). Absorbed through skin. STELV: 246 mg/m <sup>3</sup> 15 minutes.
	STELV: 246 mg/m² 15 minutes. STELV: 50 ppm 15 minutes.
	ELV: 98 mg/m³ 8 hours.
	ELV: 20 ppm 8 hours.
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2-(2-butoxyethoxy)ethanol Department of labour inspection (Cyprus, 7/2021). STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m<sup>3</sup> 8 hours. 2-Butoxyethanol Department of labour inspection (Cyprus, 7/2021). Absorbed through skin. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. 2-(2-butoxyethoxy)ethanol Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 10/2022). TWA: 70 mg/m<sup>3</sup> 8 hours. TWA: 10.36 ppm 8 hours. STEL: 100 mg/m<sup>3</sup> 15 minutes. STEL: 14.8 ppm 15 minutes. Government regulation of Czech Republic PEL/NPK-P (Czech 2-Butoxyethanol Republic, 10/2022). Absorbed through skin. TWA: 100 mg/m<sup>3</sup> 8 hours. TWA: 20.4 ppm 8 hours. STEL: 200 mg/m<sup>3</sup> 15 minutes. STEL: 40.8 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Working Environment Authority (Denmark, 6/2022). TWA: 68 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m<sup>3</sup> 15 minutes. 2-Butoxyethanol Working Environment Authority (Denmark, 6/2022). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). TWA: 10 ppm 8 hours. TWA: 67.5 mg/m<sup>3</sup> 8 hours. 2-Butoxyethanol Occupational exposure limits, Regulation No. 293 (Estonia, 12/2022). Absorbed through skin. Skin sensitiser. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. STEL: 15 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<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. Institute of Occupational Health, Ministry of Social Affairs 2-(2-butoxyethoxy)ethanol (Finland, 10/2021). TWA: 10 ppm 8 hours. TWA: 68 mg/m<sup>3</sup> 8 hours. 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<sup>3</sup> 8 hours. Date of issue/Date of revision 23/09/2024 Version : 1.01 7/27 : 24/09/2024 Date of previous issue

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STEL: 50 ppm 15 minutes. STEL: 250 mg/m<sup>3</sup> 15 minutes.

2-(2-butoxyethoxy)ethanol Ministry of Labor (France, 10/2022). Notes: Indicative regulatory limit values (decree of 30-06-2004 modified)

> STEL: 101.2 mg/m<sup>3</sup> 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.

Ministry of Labor (France, 10/2022). Absorbed through skin. 2-Butoxyethanol Notes: Binding regulatory limit values (article R. 4412-149 of

the Labor Code)

TWA: 10 ppm 8 hours. TWA: 49 mg/m<sup>3</sup> 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes.

TRGS 900 OEL (Germany, 6/2022). 2-(2-butoxyethoxy)ethanol

TWA: 67 mg/m<sup>3</sup> 8 hours.

PEAK: 100.5 mg/m<sup>3</sup> 15 minutes.

TWA: 10 ppm 8 hours. PEAK: 15 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2022).

TWA: 67 mg/m<sup>3</sup> 8 hours.

PEAK: 100.5 mg/m³, 4 times per shift, 15 minutes.

TWA: 10 ppm 8 hours.

PEAK: 15 ppm, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 6/2022). Absorbed through skin.

TWA: 49 mg/m<sup>3</sup> 8 hours. PEAK: 98 mg/m3 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2022). Absorbed through

TWA: 10 ppm 8 hours.

PEAK: 20 ppm, 4 times per shift, 15 minutes.

TWA: 49 mg/m<sup>3</sup> 8 hours.

PEAK: 98 mg/m³, 4 times per shift, 15 minutes.

DFG MAC-values list (Germany, 7/2022). Skin sensitiser.

PEAK: 0.116 mg/m³, 4 times per shift, 15 minutes. PEAK: 0.01 ppm, 4 times per shift, 15 minutes.

TWA: 0.058 mg/m<sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours.

TRGS 900 OEL (Germany, 6/2022). Skin sensitiser.

PEAK: 0.116 mg/m<sup>3</sup> 15 minutes. PEAK: 0.01 ppm 15 minutes. TWA: 0.058 mg/m<sup>3</sup> 8 hours. TWA: 0.005 ppm 8 hours.

DFG MAC-values list (Germany, 7/2022). Skin sensitiser. DFG MAC-values list (Germany, 7/2022). Absorbed through

skin. Skin sensitiser.

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021).

STEL: 101.2 mg/m<sup>3</sup> 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 9/2021). Absorbed through skin.

TWA: 25 ppm 8 hours. TWA: 120 mg/m<sup>3</sup> 8 hours.

2-Butoxyethanol

3-iodo-2-propynyl-butyl carbamate

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

2-(2-butoxyethoxy)ethanol

2-Butoxyethanol

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2-(2-butoxyethoxy)ethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). TWA: 67.5 mg/m<sup>3</sup> 8 hours. PEAK: 101.2 mg/m<sup>3</sup> 15 minutes. PEAK: 15 ppm 15 minutes. TWA: 10 ppm 8 hours. 2-Butoxyethanol 5/2020. (II. 6.) ITM Decree (Hungary, 12/2022). Absorbed through skin. Skin sensitiser. Inhalation sensitiser. TWA: 98 mg/m<sup>3</sup> 8 hours. PEAK: 246 mg/m<sup>3</sup> 15 minutes. PEAK: 50 ppm 15 minutes. TWA: 20 ppm 8 hours. 2-(2-butoxyethoxy)ethanol Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). STEL: 101.2 mg/m3 15 minutes. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. 2-Butoxyethanol Ministry of Welfare, List of Exposure Limits (Iceland, 5/2021). Absorbed through skin. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. TWA: 100 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. 2-(2-butoxyethoxy)ethanol NAOSH (Ireland, 5/2021). Notes: EU derived Occupational **Exposure Limit Values** OELV-8hr: 10 ppm 8 hours. OELV-15min: 101.2 mg/m<sup>3</sup> 15 minutes. OELV-8hr: 67.5 mg/m<sup>3</sup> 8 hours. OELV-15min: 15 ppm 15 minutes. 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<sup>3</sup> 8 hours. OELV-15min: 50 ppm 15 minutes. OELV-15min: 246 mg/m3 15 minutes. 2-(2-butoxyethoxy)ethanol Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 6/2020). 8 hours: 10 ppm 8 hours. 8 hours: 67.5 mg/m<sup>3</sup> 8 hours. Short Term: 15 ppm 15 minutes. Short Term: 101.2 mg/m3 15 minutes. Legislative Decree No. 819/2008. Title IX. Protection from 2-Butoxyethanol chemical agents, carcinogens and mutagens (Italy, 6/2020). Absorbed through skin. 8 hours: 20 ppm 8 hours. 8 hours: 98 mg/m<sup>3</sup> 8 hours. Short Term: 50 ppm 15 minutes. Short Term: 246 mg/m3 15 minutes. 2-(2-butoxyethoxy)ethanol Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). STEL: 101.2 mg/m<sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. Ministers Cabinet Regulations Nr.325 - AER (Latvia, 2/2021). 2-Butoxyethanol Absorbed through skin. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes.

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Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). 2-(2-butoxyethoxy)ethanol TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. Lithuanian Hygiene Standard HN 23 (Lithuania, 7/2022). 2-Butoxyethanol Absorbed through skin. TWA: 50 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 100 mg/m³ 15 minutes. STEL: 20 ppm 15 minutes. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-(2-butoxyethoxy)ethanol (Luxembourg, 3/2021). Absorbed through skin. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m3 15 minutes. TWA: 10 ppm 8 hours. TWA: 67.5 mg/m<sup>3</sup> 8 hours. Grand-Duchy Regulation 2016. Chemical agents. Annex I 2-Butoxyethanol (Luxembourg, 3/2021). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. 2-(2-butoxyethoxy)ethanol EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. STEL: 15 ppm 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list 2-Butoxyethanol of indicative occupational exposure limit values TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes. 2-(2-butoxyethoxy)ethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 50 mg/m<sup>3</sup> 8 hours. STEL,15-min: 100 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 7.4 ppm 8 hours. STEL,15-min: 14.8 ppm 15 minutes. 2-Butoxyethanol Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 12/2022). Absorbed through skin. OEL, 8-h TWA: 100 mg/m3 8 hours. STEL,15-min: 246 mg/m<sup>3</sup> 15 minutes. OEL, 8-h TWA: 20.4 ppm 8 hours. STEL,15-min: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 68 mg/m<sup>3</sup> 8 hours. 2-Butoxyethanol FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 10 ppm 8 hours. TWA: 50 mg/m<sup>3</sup> 8 hours. 2-(2-butoxyethoxy)ethanol 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). TWA: 67 mg/m<sup>3</sup> 8 hours.

STEL: 100 mg/m<sup>3</sup> 15 minutes.

Regulation of the Minister of Family, Labor and Social Policy

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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<sup>3</sup> 8 hours. STEL: 200 mg/m3 15 minutes. 2-(2-butoxyethoxy)ethanol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor 2-Butoxyethanol Portuguese Institute of Quality (Portugal, 11/2014). TWA: 20 ppm 8 hours. 2-(2-butoxyethoxy)ethanol HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2021). VLA: 67.5 mg/m<sup>3</sup> 8 hours. Short term: 101.2 mg/m<sup>3</sup> 15 minutes. Short term: 15 ppm 15 minutes. VLA: 10 ppm 8 hours. 2-Butoxyethanol 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. 2-(2-butoxyethoxy)ethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). TWA: 67.5 mg/m<sup>3</sup> 8 hours. STEL: 101.2 mg/m<sup>3</sup> 15 minutes. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. 2-Butoxyethanol Government regulation SR c. 355/2006 (Slovakia, 9/2020). Absorbed through skin. TWA: 98 mg/m<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. KTV: 101.2 mg/m³, 4 times per shift, 15 minutes. KTV: 15 ppm, 4 times per shift, 15 minutes. 2-Butoxyethanol 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<sup>3</sup> 8 hours. TWA: 20 ppm 8 hours. KTV: 246 mg/m³, 4 times per shift, 15 minutes. KTV: 50 ppm, 4 times per shift, 15 minutes. 3-iodo-2-propynyl-butyl carbamate Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). KTV: 0.01 ppm, 4 times per shift, 15 minutes. TWA: 0.005 ppm 8 hours. KTV: 0.116 mg/m<sup>3</sup>, 4 times per shift, 15 minutes. TWA: 0.058 mg/m<sup>3</sup> 8 hours. National institute of occupational safety and health (Spain, 2-(2-butoxyethoxy)ethanol 4/2022). TWA: 67.5 mg/m<sup>3</sup> 8 hours. TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. STEL: 101.2 mg/m³ 15 minutes.

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4/2022). Absorbed through skin.

TWA: 20 ppm 8 hours. TWA: 98 mg/m<sup>3</sup> 8 hours. STEL: 245 mg/m<sup>3</sup> 15 minutes.

National institute of occupational safety and health (Spain,

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STEL: 50 ppm 15 minutes. 2-(2-butoxyethoxy)ethanol

Work environment authority Regulation 2018:1 (Sweden,

9/2021).

TWA: 10 ppm 8 hours. TWA: 68 mg/m<sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 101 mg/m3 15 minutes.

Work environment authority Regulation 2018:1 (Sweden, 2-Butoxyethanol

9/2021). Absorbed through skin.

TWA: 10 ppm 8 hours. TWA: 50 mg/m<sup>3</sup> 8 hours. STEL: 50 ppm 15 minutes. STEL: 246 mg/m<sup>3</sup> 15 minutes.

2-(2-butoxyethoxy)ethanol SUVA (Switzerland, 1/2023).

> TWA: 67 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols STEL: 101 mg/m<sup>3</sup> 15 minutes. Form: vapour and aerosols STEL: 15 ppm 15 minutes. Form: vapour and aerosols TWA: 10 ppm 8 hours. Form: vapour and aerosols SUVA (Switzerland, 1/2023). Absorbed through skin.

TWA: 10 ppm 8 hours. TWA: 49 mg/m<sup>3</sup> 8 hours. STEL: 20 ppm 15 minutes. STEL: 98 mg/m<sup>3</sup> 15 minutes.

3-iodo-2-propynyl-butyl carbamate SUVA (Switzerland, 1/2023). Skin sensitiser.

> STEL: 0.24 mg/m<sup>3</sup> 15 minutes. Form: vapour and aerosols STEL: 0.02 ppm 15 minutes. Form: vapour and aerosols TWA: 0.01 ppm 8 hours. Form: vapour and aerosols TWA: 0.12 mg/m<sup>3</sup> 8 hours. Form: vapour and aerosols

SUVA (Switzerland, 1/2023). Skin sensitiser.

STEL: 0.4 mg/m<sup>3</sup> 15 minutes. Form: Inhalable fraction TWA: 0.2 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours.

STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m<sup>3</sup> 8 hours. STEL: 101.2 mg/m<sup>3</sup> 15 minutes.

2-Butoxyethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 50 ppm 15 minutes. TWA: 25 ppm 8 hours. STEL: 246 mg/m<sup>3</sup> 15 minutes. TWA: 123 mg/m<sup>3</sup> 8 hours.

Dipropyleneglycolmethylether EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

TWA: 308 mg/m<sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

2-aminoethanol EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed

through skin.

STEL: 7.6 mg/m<sup>3</sup> 15 minutes. STEL: 3 ppm 15 minutes. TWA: 1 ppm 8 hours. TWA: 2.5 mg/m<sup>3</sup> 8 hours.

**Biological exposure indices** 

2-Butoxyethanol

220-239-6] (3:1)

2-(2-butoxyethoxy)ethanol

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.

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•	•
Product/ingredient name	Exposure indices
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.	
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.	' ·
No exposure indices known.	
No exposure indices known.	
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.	
2-Butoxyethanol	Portuguese Institute of Quality (Portugal, 11/2014) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
No exposure indices known.	
No exposure indices known.	

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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. 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. 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.

### **Recommended monitoring** procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	67.5 mg/m <sup>3</sup>	Workers	Local
	·	Inhalation	1010 /		
	DNEL	Short term	101.2 mg/	Workers	Local
2. Dutawathanal	DNE	Inhalation	m <sup>3</sup>	Camaral	Customaia
2-Butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
	DNEL	Short term Oral	bw/day 26.7 mg/	population General	Systemic
	DINEL	Short term Oral	kg bw/day	population	Systemic
	DNEL	Long term	59 mg/m <sup>3</sup>	General	Systemic
	DIVLL	Inhalation	33 mg/m	population	Oysternio
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	00 mg/m		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	DNEL	Short term	147 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term	426 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Short term	1091 mg/	Workers	Systemic
	DATE	Inhalation	m³	<b>1 1 1</b>	
3-iodo-2-propynyl-butyl carbamate	DNEL	Long term	0.023 mg/	Workers	Systemic
	DNE	Inhalation	m <sup>3</sup>	\\/ankana	Customaia
	DNEL	Short term Inhalation	0.07 mg/m <sup>3</sup>	vvorkers	Systemic
	DNEL	Short term	1.16 mg/m³	Workers	Local
	DIVLL	Inhalation	1.10 1119/111	VVOIKCIS	Local
	DNEL	Long term	1.16 mg/m³	Workers	Local
		Inhalation	1.10 1119/111	Workoro	Local
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic

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•			1		
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal	0.345 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.966 mg/ kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m³		Systemic
Bronopol	DNEL	Short term Dermal	4 μg/cm²	General population	Local
	DNEL	Long term Dermal	4 μg/cm²	General population	Local
	DNEL	Short term Dermal	8 µg/cm²	Workers	Local
	DNEL	Long term Dermal	8 μg/cm²	Workers	Local
	DNEL	Long term Oral	0.18 mg/	General	Systemic
	DNEL	Short term Oral	kg bw/day 0.5 mg/kg	population General	Systemic
	51151	0	bw/day	population	
	DNEL	Short term	0.6 mg/m <sup>3</sup>	General	Local
	DATE	Inhalation	0.0 / 3	population	
	DNEL	Long term	0.6 mg/m <sup>3</sup>	General	Systemic
	DAIE	Inhalation	0.7/	population	0
	DNEL	Long term Dermal	0.7 mg/kg	General	Systemic
	DAIE	01	bw/day	population	0
	DNEL	Short term	1.8 mg/m <sup>3</sup>	General	Systemic
	ראבי	Inhalation	0	population	Cuatar::-
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	2.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	3.5 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	10.5 mg/m <sup>3</sup>	Workers	Systemic
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-	DNEL	Long term Inhalation	0.02 mg/m³	General population	Local
isothiazol-3-one [EC no. 220-239-6] (3:1)					
	DNEL	Long term Inhalation	0.02 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m³		Local
	DNEL	Long term Oral	0.09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.11 mg/ kg bw/day	General population	Systemic

#### **PNECs**

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering** controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Individual protection measures** 

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#### **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 period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with 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

#### **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.

A P Filter type (spray application):

#### **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.

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** : Liquid. Colour Colourless. Odour : Sliaht

: Not available. **Odour threshold** Not available. Melting point/freezing point

boiling range

Initial boiling point and

°C °F Method Ingredient name 100 212 water 339.8 to 340.7 IP 123-93 2-Butoxyethanol 171 to 171.5

: Not available. **Flammability** 

: Lower: Not applicable. Lower and upper explosion Upper: Not applicable. limit

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# **SECTION 9: Physical and chemical properties**

: Closed cup: >100°C (>212°F) Flash point

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794
2-Butoxyethanol	230	446	DIN 51794

**Decomposition temperature** : Not available.

pН : 7 to 8.5 [Conc. (% w/w): 100%]

**Viscosity** Not available.

Solubility(ies)

Not available.

Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	17.5	2.3				
2-Butoxyethanol	0.75006	0.1				

**Relative density** : Not available. **Density** : 1 g/cm<sup>3</sup> Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

### 9.2 Other information

No additional information.

# SECTION 10: Stability 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.

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# **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
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
3-iodo-2-propynyl-butyl carbamate	LC50 Inhalation Dusts and mists	Rat	0.67 g/m³	4 hours
	LC50 Inhalation Dusts and mists	Rat	0.763 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	400 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LD50 Oral	Rat	1020 mg/kg	-
Bronopol	LC50 Inhalation Dusts and mists	Rat	>0.588 mg/l	4 hours
	LD50 Dermal	Rat	4750 mg/kg	-
	LD50 Oral	Rat	307 mg/kg	-
4,5-dichloro-2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.26 mg/l	4 hours
ISOUIIAZOI-3-OHE	LD50 Dermal	Rabbit	>652 mg/kg	-
	LD50 Oral	Rat	1585 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-	LD50 Oral	Rat	53 mg/kg	-
3-one [EC no. 220-239-6] (3: 1)				

# **Conclusion/Summary**

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

# **Acute toxicity estimates**

Route	ATE value
Inhalation (vapours)	101230.97 mg/kg 253.08 mg/l 103.65 mg/l

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
,				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
2-Butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
3-iodo-2-propynyl-butyl	Eyes - Severe irritant	Rabbit	-	-	-
carbamate					
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
Bronopol	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Human	-	10 mg	-
	Skin - Moderate irritant	Rabbit	-	80 mg	-
reaction mass of: 5-chloro-	Skin - Severe irritant	Human	-	0.01 %	-
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)					

**Conclusion/Summary** 

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

**Sensitisation** 

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# **SECTION 11: Toxicological information**

Product/ingredient name	Route of exposure	Species	Result
3-iodo-2-propynyl-butyl carbamate	skin	Guinea pig	Not sensitizing

**Conclusion/Summary** 

: May cause an allergic skin reaction.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
3-iodo-2-propynyl-butyl carbamate	-	Experiment: In vitro Subject: Bacteria	Negative

**Conclusion/Summary** 

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

**Carcinogenicity** 

**Conclusion/Summary** 

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

#### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
3-iodo-2-propynyl-butyl carbamate	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week
	Positive	-	Negative	Rabbit - Female	Oral: 50 mg/kg	13 days; 7 days per week

**Conclusion/Summary** 

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

### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
3-iodo-2-propynyl-butyl carbamate	Negative - Oral	Rabbit - Female	50 mg/kg	-

**Conclusion/Summary** 

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

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Bronopol	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3-iodo-2-propynyl-butyl carbamate	Category 1	-	larynx

#### **Aspiration hazard**

Not available.

**Information on likely routes**: Not available.

of exposure

# Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

: May cause an allergic skin reaction. **Skin contact** 

: No known significant effects or critical hazards. Ingestion

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data. Inhalation : No specific data.

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# **SECTION 11: Toxicological information**

**Skin contact** : Adverse symptoms may include the following:

> irritation redness

: No specific data. Ingestion

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

**Short term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

Potential chronic health effects

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. : No known significant effects or critical hazards. Mutagenicity 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
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 μg/l Fresh water	Fish - Lepomis macrochirus	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
3-iodo-2-propynyl-butyl carbamate	Acute EC50 0.022 mg/l Fresh water	Algae - Scenedemus subspicatus	72 hours
	Acute EC50 0.16 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.067 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute NOEC 0.049 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.05 mg/l Fresh water	Daphnia - <i>Daphnia Magna</i>	21 days
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 - <i>Daphnia Magna</i>	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
Bronopol	Acute EC50 0.4 mg/l	Algae	72 hours
	Acute EC50 0.02 ppm Fresh water	Algae - Scenedesmus subspicatus	96 hours
	Acute EC50 1.4 mg/l	Daphnia	48 hours
	Acute LC50 41.2 mg/l	Fish	96 hours
	Acute LC50 11.17 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 1.94 ppm	Fish - Oncorhynchus mykiss	49 days
4,5-dichloro-2-octyl-2H-isothiazol-3-one	Acute EC50 0.003 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 18 ppb Marine water	Algae - Skeletonema costatum	96 hours

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#### **SECTION 12: Ecological information** Acute EC50 0.001 mg/l Fresh water Daphnia - Daphnia magna 48 hours Acute LC50 22 µg/l Fresh water Crustaceans - Gammarus pulex 48 hours Acute LC50 2.7 ppb Fresh water Fish - Oncorhynchus mykiss 96 hours Chronic NOEC 19.789 µg/l Marine Algae - Nitzschia pungens 96 hours water Fish - Oncorhynchus mykiss 97 days Chronic NOEC 0.56 ppb

**Conclusion/Summary** 

: Harmful to aquatic life with long lasting effects.

#### 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 has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-iodo-2-propynyl-butyl carbamate	-	-	Not readily
1,2-benzisothiazol-3(2H)-one Bronopol	- -		Inherent Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	Low
2-Butoxyethanol	0.81	-	Low
3-iodo-2-propynyl-butyl	>1	-	Low
carbamate			
1,2-benzisothiazol-3(2H)-one	-	3.2	Low
Bronopol	0.18	-	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 methods

#### **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) : 080112

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# **SECTION 13: Disposal considerations**

#### **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.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

# SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

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]
DRYWOOD WOODSTAIN VV SG	≥90	3
2-(2-butoxyethoxy)ethanol	≤3	55 [Consumer paint]

Labelling

prevention and control) -

**Other EU regulations** 

**Industrial emissions** : Not listed (integrated pollution

Air

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# **SECTION 15: Regulatory information**

Industrial emissions : Not listed (integrated pollution

prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**National regulations** 

<u>Austria</u>

VbF class : Not regulated.

Limitation of the use of : Permitted.

organic solvents

**Czech Republic** 

Storage code : IV

**Denmark** 

Danish fire class : IV-1
MAL-code : 00-1

**Protection based on MAL** 

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1

**Application:** When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

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# **SECTION 15: Regulatory information**

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

Restrictions on use : Not to be used by professional users below 18 years of age. See the National

Working Environment Authorities Executive Order regarding Young People At Work.

**RG 84** 

**RG 84** 

List of undesirable

substances

: Not listed

Finland France

Social Security Code, Articles L 461-1 to L 461-7 : 2-(2-butoxyethoxy)ethanol 2-Butoxyethanol

**Reinforced medical** 

surveillance

: Act of July 11, 1977 determining the list of activities which require reinforced

medical surveillance: not applicable

**Germany** 

Storage class (TRGS 510) : 10 Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water :

**Technical instruction on** 

air quality control

: TA-Luft Number 5.2.5: 4.6%

TA-Luft Class I - Number 5.2.5: 0.6%

AOX : The product contains organically bound halogens and can contribute to the AOX

value in waste water.

<u>Italy</u>

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**Water Discharge Policy** 

(ABM)

: A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic

environment. Decontamination effort: A

Norway Sweden

**Switzerland** 

VOC content : VOC (w/w): 4.2%

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

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

assessment

: This product contains substances for which Chemical Safety Assessments are still

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required.

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# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

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
, -	Calculation method Calculation method

#### Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful 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.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

### Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
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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# **SECTION 16: Other information**

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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DRYWOOD WOODSTAIN VV SG - BASE T

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