## SAFETY DATA SHEET



TEKNOSAFE FLAME GUARD 2457-10 - BASE 3

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

1.1 Product identifier

Product name : TEKNOSAFE FLAME GUARD 2457-10 - BASE 3

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]

kin Sens. 1, H317 Carc. 2, H351

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 : M317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer.

**Precautionary statements** 

Prevention : P202 - Do not handle until all safety precautions have been read and understood.

P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

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or hearing protection.

P261 - Avoid breathing vapour.

Response : P308 + P313 - IF exposed or concerned: Get medical advice or attention.

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

Storage : Not applicable.

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

national and international regulations.

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### **SECTION 2: Hazards identification**

**Hazardous ingredients** 

: Contains: melamine; 2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated;

1,2-benzisothiazol-3(2H)-one and 2-methyl-2H-isothiazol-3-one

Supplemental label elements

: Contains biocidal products for in-can preservation: BIT and MIT.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Contains blooded products for in our propervation. Bit and init.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

### SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
melamine	EC: 203-615-4 CAS: 108-78-1 Index: 613-345-00-2	<10	Carc. 2, H351 STOT RE 2, H373 (urinary tract)	-	[1] [2]
2,4,7,9-Tetramethyldec- 5-yne-4,7-diol, ethoxylated	REACH #: 01-2119954393-33 EC: 500-022-5 CAS: 9014-85-1	<1	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[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]
2-methyl-2H-isothiazol- 3-one	EC: 220-239-6 CAS: 2682-20-4	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1	[1]
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 ≥ 0.6% Eye Dam. 1, H318: C ≥ 0.6%	[1]

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SECTION 3: Compo	SECTION 3: Composition/information on ingredients						
		See Section 16 for the full text of the H statements declared	Eye Irrit. 2, H319: 0.06% ≤ C < 0.6% Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100				
		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.

### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance of equivalent concern

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.

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 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. 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

Eye contact : No specific data.

Inhalation : May damage fertility.

Skin contact : May damage fertility.

Ingestion : May damage fertility.

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

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

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: 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.

Hazardous combustion products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides phosphorus 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 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.

### **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).

#### 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.

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### **SECTION 6: Accidental release measures**

## 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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 : 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
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)	Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.  TWA: 0.05 mg/m³ 8 hours.  Regulation on Limit Values - MAC (Austria, 4/2021). [5-chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one (mixture in the ratio 3:1)] Skin sensitiser.  TWA: 0.05 mg/m³ 8 hours.
No exposure limit value known.	
No exposure limit value known.	
No exposure limit value known.	

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## SECTION 8: Exposure controls/personal protection No exposure limit value known. No exposure limit value known.

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

No exposure limit value known. No exposure limit value known. No exposure limit value known.

No exposure limit value known.

No exposure limit value known. No exposure limit value known. 1,2-benzisothiazol-3(2H)-one

2-methyl-2H-isothiazol-3-one

No exposure limit value known. No exposure limit value known. No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

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)

Dipropyleneglycolmethylether

2-Butoxyethanol

Ammonia

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

STEL: 0.4 mg/m³ 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). Absorbed through skin.

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

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.

EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia anhydrous]

STEL: 25 mg/m3 15 minutes. Form: anhydrous STEL: 35 ppm 15 minutes. Form: anhydrous TWA: 25 ppm 8 hours. Form: anhydrous TWA: 18 mg/m<sup>3</sup> 8 hours. Form: anhydrous

**Biological exposure indices** 

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### **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Exposure indices
No exposure indices known.	
<b>2</b> -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**

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## **SECTION 8: Exposure controls/personal protection**

melamine    DNEL   Long term Oral   Long term Oral   Long term   L	Product/ingredient name	Туре	Exposure	Value	Population	Effects
DNEL Long term Inhalation DNEL Short term I			-			
DNEL   DNEL   Long term   Inhalation   DNEL   DNEL	meiamine	DNEL	Long term Oral			Systemic
DNEL Long term lembal DNEL Long term lembal DNEL Long term lembalation DNEL		DNFI	Long term			Systemic
DNEL   Long term		DIVLE		1.0 mg/m		Cyclenno
DNEL Long term Inhalation DNEL Short term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL		4.2 mg/kg		Systemic
DNEL						-
DNEL Dnet with the properties of the properties		DNEL		8.3 mg/m <sup>3</sup>	Workers	Systemic
DNEL   Short term Dermal   Short term Dermal   Short term Dermal   Short term   S						
DNEL Short term Dermal bw/day bw/day bw/day s2.3 mg/m³ bw/day s2.5 mg/kg bw/day seneral population systemic population		DNEL	Long term Dermal		Workers	Systemic
DNEL Short term Inhalation DNEL Long term Dermal PNEL Long term Dermal Inhalation DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL DNEL Short term Inhalation DNEL DNEL Short term Inhalation D		DNEI	Short term Dermal		Workers	Systemic
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2.4.7.9-Tetramethyldec-5-yne-4,7-diol, ethoxylated  DNEL DNEL Dny term Dermal Dn		DNEL	Short term		Workers	Systemic
4,7-diol, ethoxylated  DNEL   Long term Dermal   DNEL   Long term   Long term				3		,
DNEL Long term Dermal DNEL Long term DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DNEL	Long term Oral			Systemic
DNEL long term linhalation DNEL Short term linhalation DNEL John term Onal L-37-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  DNEL long term lormal long term linhalation DNEL long term linha	4,7-diol, ethoxylated		l <u>-</u> .			
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DNEL   Long term Dermal   DNEL		DNEI	Long torm			Systemic
DNEL Long term Dermal (physical powers) (physica		DINEL		4.33 mg/m		Systemic
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1,2-benzisothiazol-3(2H)-one    DNEL   Long term Dermal   DNEL   Long term Dermal   DNEL   Long term Dermal   DNEL   Long term   DNEL   DNEL		DNEL		24.7 mg/m <sup>3</sup>	Workers	Systemic
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DNEL   Long term	1,2-benzisothiazol-3(2H)-one	DNEL	Long term Dermal			Systemic
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2-methyl-2H-isothiazol-3-one    DNEL   Long term   Inhalation   Long term   Inhalation   DNEL   Long term   Inhalation   DNEL   Long term   Inhalation   DNEL   Long term   Inhalation   DNEL   DNEL   DNEL   Inhalation   DNEL   DNEL   Inhalation   DNEL   DNEL   Inhalation   Inhalati						-,
2-methyl-2H-isothiazol-3-one  DNEL Dng term Long term Unhalation DNEL Dng term Oral Dng term Oral DNEL Dng term Oral Dng term Dng t		DNEL	Long term	6.81 mg/m <sup>3</sup>	Workers	Systemic
Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL						
DNEL   Long term	2-methyl-2H-isothiazol-3-one	DNEL				Local
Inhalation Long term Oral  DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNE		DNEI				Local
DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL		DINCL	_		Workers	Local
PONEL Short term Inhalation DNEL Short term Oral O.02 mg/m³ Workers Local DNEL Short term Oral Short term Oral Short term Oral O.04 mg/m³ Workers Local O.04 mg/m³ O.04 mg/m		DNEL			General	Systemic
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 220-239-6] (3:1)  DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Oral DNEL Long term Inhalation DNEL Short term Oral DNEL Long term Inhalation DNEL Short term Oral Systemic Syst				kg bw/day	population	
DNEL Short term Inhalation DNEL Short term Oral DNE		DNEL				Local
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)  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Short term Oral  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Short term Oral  DNEL Long term Oral  DNEL Short term Oral  Systemic Systemic  Systemic  Systemic  Systemic  Systemic  Systemic		חובי				
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)  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Short term Oral  DNEL Long term Inhalation  DNEL Short term Oral  DNEL Long term Inhalation  DNEL Short term Oral		DNEL			vvorkers	Local
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)  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Short term Onal  DNEL Long term Onal  DNEL Short term Onal		DNEL			General	Systemic
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)  DNEL Long term Inhalation  DNEL Long term Inhalation  DNEL Short term Inhalation  DNEL Short term Inhalation  DNEL Long term Inhalation  DNEL Short term Inhalation  DNEL Short term Oral		= · · · <b></b>				,
247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)  DNEL Long term 0.02 mg/m³ Workers Local Inhalation DNEL Short term 0.04 mg/m³ General population DNEL Short term 0.09 mg/ kg bw/day DNEL Short term Oral 0.11 mg/ General Systemic		DNEL	_		General	Local
isothiazol-3-one [EC no. 220-239-6] (3:1)  DNEL Long term 0.02 mg/m³ Workers Local Inhalation DNEL Short term 0.04 mg/m³ General population DNEL Short term 0.09 mg/ Representation DNEL Long term 0.09 mg/ Representation DNEL Short term Oral 0.09 mg/ Representation DNEL Short term Oral 0.11 mg/ General Systemic			Inhalation		population	
DNEL Long term 0.02 mg/m³ Workers Local  DNEL Short term 0.04 mg/m³ General population  DNEL Short term 0.04 mg/m³ Workers  DNEL Short term 0.04 mg/m³ Workers  Local population  Workers Local population  Workers Local  DNEL Long term Oral 0.09 mg/ General population  DNEL Short term Oral 0.09 mg/ General population  DNEL Short term Oral 0.11 mg/ General Systemic						
DNEL Long term   0.02 mg/m³   Workers   Local	-					
Inhalation DNEL Short term 0.04 mg/m³ General population DNEL Short term 0.04 mg/m³ Workers  DNEL Long term Oral 0.09 mg/ kg bw/day DNEL Short term Oral 0.11 mg/ General Systemic	(0.1)	DNEI	Long term	0 02 ma/m³	Workers	Local
DNEL Short term 0.04 mg/m³ General population  DNEL Short term 0.04 mg/m³ Workers  DNEL Long term Oral 0.09 mg/ kg bw/day DNEL Short term Oral 0.11 mg/ General Systemic  DNEL Short term Oral 0.11 mg/ General Systemic		J. 4LL		0.02 mg/m		
Inhalation DNEL Short term Oral  Inhalation  Inhalation		DNEL		0.04 mg/m <sup>3</sup>	General	Local
Inhalation Long term Oral  DNEL  Short term Oral  Inhalation  0.09 mg/ kg bw/day population  One of the population					population	
DNEL Long term Oral 0.09 mg/ General Systemic by bw/day population CNEL Short term Oral 0.11 mg/ General Systemic Systemic		DNEL		0.04 mg/m <sup>3</sup>	Workers	Local
DNEL Short term Oral kg bw/day population Systemic Systemic		ראבי		0.00/	Conoral	Cyptorsis
DNEL Short term Oral 0.11 mg/ General Systemic		DNEL	Long term Oral			Systemic
		DNFI	Short term Oral			Systemic
		,	Z.ioit toiiii Orai	kg bw/day	population	2,0000

### **PNECs**

No PNECs available

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### **SECTION 8: Exposure controls/personal protection**

#### 8.2 Exposure controls

Appropriate engineering controls

: Provide enhanced general ventilation by mechanical means. Use in room with a volume of minimum 100 m³.

#### **Individual protection measures**

**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. Use eye protection according to EN 166.

### 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. Wear a respirator conforming to EN140.

Filter type: A

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. Industrial spraying: Local exhaust ventilation - efficiency of at least 95%

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### **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 : Clear.

Odour : Slight

Odour threshold : Not ava

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

:

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### SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
water	100	212	
Pentaerythritol	368.85	695.9	ASTM E 537-02

**Flammability** : Not available.

Lower and upper explosion

limit

: Lower: Not applicable. Upper: Not applicable.

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

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
Pentaerythritol	>400	>752	EU A.16
melamine	>400	>752	EU A.16

**Decomposition temperature** : Not available. pН : Not applicable. **Viscosity** : Not available.

Solubility(ies)

Not available.

: Not available. Solubility in water

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Vapo			Va	pour pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method			
melamine melamine	3525000	469961.4							
water	17.5	2.3							

**Relative density** : Not available. : 1.4 g/cm<sup>3</sup> **Density** : Not available. Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** 

**Particle characteristics** 

Median particle size : Not applicable.

## **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.

: No specific data. 10.4 Conditions to avoid

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
melamine	LD50 Oral	Rat	3161 mg/kg	-
1,2-benzisothiazol-3(2H)-	LD50 Oral	Rat	1020 mg/kg	-
one				
2-methyl-2H-isothiazol-	LC50 Inhalation Dusts and	Rat	0.11 mg/l	4 hours
3-one	mists			
reaction mass of: 5-chloro-	LD50 Oral	Rat	53 mg/kg	-
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.

### **Acute toxicity estimates**

Route	ATE value
Not available.	

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
melamine	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
1,2-benzisothiazol-3(2H)-one 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 - Mild irritant Skin - Severe irritant	Human Human	-	48 hours 5 % 0.01 %	-

**Conclusion/Summary** 

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

**Sensitisation** 

**Conclusion/Summary** 

: May cause an allergic skin reaction.

**Mutagenicity** 

**Conclusion/Summary** 

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

**Carcinogenicity** 

**Conclusion/Summary** 

: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

**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.

Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
melamine	Category 2	-	urinary tract

### **Aspiration hazard**

Not available.

Information on likely routes : Not available. of exposure

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### **SECTION 11: Toxicological information**

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

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

**Ingestion** : No known significant effects or critical hazards.

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

Eye contact: No specific data.Inhalation: May damage fertility.Skin contact: May damage fertility.Ingestion: May damage fertility.

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

### **Short term exposure**

**Potential immediate** 

: Not available.

effects

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: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

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
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
2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary**: Based on available data, the classification 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	-	-

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### **SECTION 12: Ecological information**

Conclusion/Summary : This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1,2-benzisothiazol-3(2H)-one	-	-	Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
melamine	-1.22	<3.8	Low
1,2-benzisothiazol-3(2H)-one	-	3.2	Low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

: Not available. **Mobility** 

#### 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.

**Hazardous waste** 

: 080111\*

**European waste** catalogue (EWC)

**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.

: The classification of the product may meet the criteria for a hazardous waste.

**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**

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### **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.

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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for human health	melamine	Candidate	D(2022) 9120-DC	1/17/2023
Substance of equivalent concern for environment	melamine	Candidate	D(2022) 9120-DC	1/17/2023

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

Product/ingredient name	%	Designation [Usage]
FEKNOSAFE FLAME GUARD 2457-10	≥90	3

Labelling

Other EU regulations

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

prevention and control) -

Air

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

prevention and control) -

Water

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### **SECTION 15: Regulatory information**

**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**

**Austria** 

VbF class : Not regulated.

Limitation of the use of : Permitted.

organic solvents

**Czech Republic** 

Storage code : IV

**Denmark** 

Danish fire class : IV-1 Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
melamine	-	Carc. 2, H351

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

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### **SECTION 15: Regulatory information**

worn.

**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.

List of undesirable

substances

: Not listed

Finland France

**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: 2.2%

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** : Exempt.

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

: Complete.

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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
Skin Sens. 1, H317 Carc. 2, H351	Calculation method Calculation method

### Full text of abbreviated H statements

<b>⊮</b> 301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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

Cute 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
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

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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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