## 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

: Prod-safe@teknos.com

responsible for this SDS

**National contact** 

Teknos Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

### 1.4 Emergency telephone number

National advisory body/Poison Centre
Telephone number : NHS: 111

### **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 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** : H317 - 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 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 elements

Contains biocidal products for in-can preservation: C(M)IT/MIT (3:1).

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

### 2.3 Other hazards

**Product meets the criteria** for PBT or vPvB according to Regulation (EC) No. 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

: Mixture 3.2 Mixtures

| Product/ingredient name   | Identifiers   | %       | Classification  | Specific Conc.<br>Limits, M-factors<br>and ATEs  | Туре    |
|---|---|---------|---|--|---------|
| melamine  | EC: 203-615-4<br>CAS: 108-78-1<br>Index: 613-345-00-2           | <10     | Carc. 2, H351<br>STOT RE 2, H373<br>(urinary tract)   | -  | [1] [2] |
| 2,4,7,9-Tetramethyldec-<br>5-yne-4,7-diol, ethoxylated  | REACH #:<br>01-2119954393-33<br>EC: 500-022-5<br>CAS: 9014-85-1 | <1      | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3,<br>H412  | -  | [1]     |
| 1,2-benzisothiazol-3(2H)-<br>one  | EC: 220-120-9<br>CAS: 2634-33-5<br>Index: 613-088-00-6          | <0.036  | Acute Tox. 4, H302<br>Acute Tox. 2, H330<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410                                 | ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1, H317: C ≥ 0.036% M [Acute] = 1 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) | EC: 911-418-6<br>CAS: 55965-84-9<br>Index: 613-167-00-5         | <0.0025 | Acute Tox. 3, H301<br>Acute Tox. 2, H310<br>Acute Tox. 2, H330<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410<br>EUH071 | ATE [Oral] = 53 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Skin Corr. 1C, H314: $C \ge 0.6\%$ Eye Dam. 1, H318: $C \ge 0.6\%$ Eye Irrit. 2, H319: $0.06\% \le C < 0.6\%$ Skin Sens. 1, H317: $C \ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100 | [1]     |

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| SECTION 3: Composition/information on ingredients |  |   |                       |  |  |
|---|--|---|-----------------------|--|--|
|   |  | [ | See Section 16 for    |  |  |
|   |  | t | he full text of the H |  |  |
|   |  | 5 | statements declared   |  |  |
|   |  | a | 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

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.

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**Specific treatments** : No specific treatment.

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## **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.

metal oxide/oxides

### 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

### 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. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

## 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.

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## 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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

### 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 |
|--------------------------------|-----------------------|
| No exposure limit value known. |                       |
| Piological exposure indices    |                       |

#### Biological exposure indices

| Product/ingredient name    | Exposure indices |
|----------------------------|------------------|
| No exposure indices known. |                  |

### **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 Result

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## SECTION 8: Exposure controls/personal protection

melamine

DNEL - General population - Long term - Oral

0.42 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

1.5 mg/m<sup>3</sup> Effects: Systemic

**DNEL - General population - Long term - Dermal** 

4.2 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

8.3 mg/m<sup>3</sup>

Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

11.8 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Short term - Inhalation** 

82.3 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Short term - Dermal** 

117 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

0.307 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Dermal

0.307 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

0.534 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

0.859 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

3.03 mg/m<sup>3</sup> Effects: Systemic

1,2-benzisothiazol-3(2H)-one **DNEL - General population - Long term - Dermal** 

> 0.345 mg/kg bw/day Effects: Systemic

**DNEL - Workers - Long term - Dermal** 

0.966 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

1.2 mg/m<sup>3</sup> Effects: Systemic

**DNEL - Workers - Long term - Inhalation** 

6.81 mg/m<sup>3</sup> Effects: Systemic

reaction mass of: 5-chloro-2-methyl-DNEL - General population - Long term - Inhalation

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2,4,7,9-Tetramethyldec-5-yne-4,7-diol,

ethoxylated

## SECTION 8: Exposure controls/personal protection

4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

0.02 ma/m<sup>3</sup> Effects: Local

**DNEL - Workers - Long term - Inhalation** 

0.02 ma/m<sup>3</sup> Effects: Local

DNEL - General population - Short term - Inhalation

0.04 mg/m<sup>3</sup> Effects: Local

**DNEL - Workers - Short term - Inhalation** 

0.04 mg/m<sup>3</sup> Effects: Local

DNEL - General population - Long term - Oral

0.09 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

0.11 mg/kg bw/day Effects: Systemic

### **PNECs**

Not available.

### 8.2 Exposure controls

Appropriate engineering controls

: Provide enhanced general ventilation by mechanical means. Use in room with a volume of minimum 100 m<sup>3</sup>.

### 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.

Nitrile gloves. thickness > 0.3 mm > 8 hours (breakthrough time): 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.

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

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 F

**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. Spraying in industrial settings and applications: Local exhaust ventilation - efficiency of at least 95%

## **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 available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

| 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.

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

Auto-ignition temperature

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

**Decomposition temperature**: Not available.

**pH** : 7 to 8 [Conc. (% w/w): 100%]

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

tor

Vapour pressure :

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## SECTION 9: Physical and chemical properties

|                 | 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          |        |                         |     |        |
| Pentaerythritol | 0.000000026             | 0.0000000035 |        |                         |     |        |

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

**Particle characteristics** 

Median particle size : Not applicable.

### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

**Explosive properties** : Not available. **Oxidising properties** : Not available.

9.2.2 Other safety characteristics

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.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

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

## **SECTION 11: Toxicological information**

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

### **Acute toxicity**

Product/ingredient name Result

melamine Rat - Oral - LD50

3161 mg/kg

1,2-benzisothiazol-3(2H)-one Rat - Oral - LD50

1020 mg/kg

reaction mass of: 5-chloro-2-methyl-Rat - Oral - LD50

4-isothiazolin-3-one [EC no. 247-500-7] and 53 mg/kg

2-methyl-2H-isothiazol-3-one [EC no.

Toxic effects: Behavioral - Somnolence (general depressed 220-239-6] (3:1) activity) Behavioral - Ataxia Lung, Thorax, or Respiration -

Respiratory depression

**Conclusion/Summary [Product]**: Not available.

**Acute toxicity estimates** 

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## **SECTION 11: Toxicological information**

| Product/ingredient name  | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| melamine   | 3161             | N/A               | N/A                            | N/A                               | N/A  |
| 1,2-benzisothiazol-3(2H)-one   | 450              | N/A               | N/A                            | N/A                               | 0.21   |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-                                | 53               | 50                | N/A                            | 0.5                               | N/A  |
| 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) |                  |                   |                                |                                   |  |

### Skin corrosion/irritation

**Product/ingredient name** 

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)

Result

Human - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 48 hours <u>Amount/concentration applied</u>: 5 %

**Human - Skin - Severe irritant** Amount/concentration applied: 0.01 %

**Conclusion/Summary [Product]**: Not available.

Serious eye damage/eye irritation

**Product/ingredient name** 

melamine

Result

Rabbit - Eyes - Mild irritant

<u>Duration of treatment/exposure</u>: 24 hours <u>Amount/concentration applied</u>: 500 mg

Conclusion/Summary [Product] : Not available.

**Respiratory corrosion/irritation** 

Not available.

**Conclusion/Summary [Product]**: Not available.

**Respiratory or skin sensitization** 

Not available.

Skin

**Conclusion/Summary [Product]**: Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

**Germ cell mutagenicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

**Carcinogenicity** 

Not available.

**Conclusion/Summary [Product]**: Not available.

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## **SECTION 11: Toxicological information**

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]**: Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

melamine STOT RE 2, H373 (urinary tract)

### **Aspiration hazard**

Not available.

### Information on likely routes of exposure

Not available.

### 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** 

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 [Product]**: 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.

**Conclusion/Summary [Product]**: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC)

No. 1907/2006 or Regulation (EC) No 1272/2008.

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### 11.2.2 Other information

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## **SECTION 11: Toxicological information**

Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name

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

#### Result

Acute - LC50 - Fresh water

OECD [Fish, Acute Toxicity Test] Fish - Trout - Onorhynchus Mykiss

1.9 mg/l [96 hours]

Acute - EC50

OECD 202 [Daphnia sp. Acute Immobilization Test and

Reproduction Test]

Daphnia - Daphnia - Daphnia Magna

3.7 mg/l [48 hours]

Acute - EC50 - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum

0.36 mg/l [72 hours]

Acute - NOEC - Marine water

OECD 201 [Alga, Growth Inhibition Test] Algae - Algae - Skeletonema Costatum

0.15 mg/l [72 hours]

**Conclusion/Summary [Product]** : Not available.

12.2 Persistence and degradability

Product/ingredient name 1,2-benzisothiazol-3(2H)-one Result

ΕU

24% [28 days]

**Conclusion/Summary [Product]**: Not available.

| 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

| Product/ingredient name      | logKoc | Koc     |
|------------------------------|--------|---------|
| melamine                     | 1.66   | 45.8075 |
| 1,2-benzisothiazol-3(2H)-one | 1.86   | 73.142  |

### Results of PMT and vPvM assessment

| Product/ingredient name  | PMT | Р  | M  | T  | vPvM | vP | vM |
|--|-----|----|----|----|------|----|----|
| melamine   | No  | No | No | No | No   | No | No |
| 2,4,7,9-Tetramethyldec-<br>5-yne-4,7-diol, ethoxylated   | No  | No | No | No | No   | No | No |
| 1,2-benzisothiazol-3(2H)-one   | No  | No | No | No | No   | No | No |
| reaction mass of: 5-chloro-<br>2-methyl-4-isothiazolin-<br>3-one [EC no. 247-500-7]<br>and 2-methyl-2H-isothiazol- | No  | No | No | No | No   | No | No |

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## **SECTION 12: Ecological information**

3-one [EC no. 220-239-6] (3: 1)

Mobility : Not available.

**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.

### 12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

| Product/ingredient name  | PBT | P  | В  | T  | vPvB | vP | vB |
|--|-----|----|----|----|------|----|----|
| melamine   | No  | No | No | No | No   | No | No |
| 2,4,7,9-Tetramethyldec-<br>5-yne-4,7-diol, ethoxylated   | No  | No | No | No | No   | No | No |
| 1,2-benzisothiazol-3(2H)-one   | No  | No | No | No | No   | No | No |
| reaction mass of: 5-chloro-<br>2-methyl-4-isothiazolin-<br>3-one [EC no. 247-500-7]<br>and 2-methyl-2H-isothiazol-<br>3-one [EC no. 220-239-6] (3:<br>1) | No  | No | No | No | No   | No | No |

### **Regulation (EC) No. 1272/2008 [CLP]**

| Product/ingredient name      | PBT | Р  | В  | Т  | vPvB | νP | vB |  |
|------------------------------|-----|----|----|----|------|----|----|--|
| melamine                     | No  | No | No | No | No   | No | No |  |
| 2,4,7,9-Tetramethyldec-      | No  | No | No | No | No   | No | No |  |
| 5-yne-4,7-diol, ethoxylated  |     |    |    |    |      |    |    |  |
| 1,2-benzisothiazol-3(2H)-one | No  | No | No | No | No   | No | No |  |
| reaction mass of: 5-chloro-  | No  | No | No | No | No   | No | No |  |
| 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 Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

### 12.6 Endocrine disrupting properties

Not available.

**Conclusion/Summary [Product]** 

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 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)

: 080111\*

**Packaging** 

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## **SECTION 13: Disposal considerations**

**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<br>hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing group                 | -              | -              | -              | -              |
| 14.5<br>Environmental<br>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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

**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        | Recommended | D(2022)<br>9120-DC | 2/7/2024         |
| Substance of equivalent concern for environment  | melamine        | Recommended | D(2022)<br>9120-DC | 2/7/2024         |

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

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

Labelling

**Other EU regulations** 

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## **SECTION 15: Regulatory information**

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

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.

**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 : Complete.

assessment

### **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.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

| Classification     | Justification      |  |
|--------------------|--------------------|--|
| Skin Sens. 1, H317 | Calculation method |  |
| Carc. 2, H351      | Calculation method |  |

### Full text of abbreviated H statements

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## **SECTION 16: Other information**

| T      |  |
|--------|--|
| H301   | Toxic if swallowed.  |
| H302   | Harmful if swallowed.  |
| H310   | Fatal in contact with skin.  |
| H314   | Causes severe skin burns and eye damage.                           |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                               |
| H318   | Causes serious eye damage.   |
| 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]

| 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                 |
| Carc. 2           | CARCINOGENICITY - Category 2                                    |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE 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 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |

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### **Notice to reader**

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

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