## SAFETY DATA SHEET



INFRALIT PE 8316-13 - All variants

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

1.1 Product identifier

**Product name** : INFRALIT PE 8316-13 - All variants

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

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]

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

Signal word : No signal word.

**Hazard statements** : H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

: P273 - Avoid release to the environment. **Prevention** 

Response : Not applicable. **Storage** : Not applicable.

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

national and international regulations.

Supplemental label

elements

: Contains zinc di(benzothiazol-2-yl) disulphide. May produce an allergic reaction.

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

articles

2.3 Other hazards

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#### SECTION 2: Hazards identification

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

: May form explosible dust-air mixture if dispersed.

### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Znc di(benzothiazol-2-yl) disulphide	REACH #: 01-2119493020-50 EC: 205-840-3 CAS: 155-04-4	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

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

#### **Type**

Substance classified with a health or environmental hazard

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. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting

unless directed to do so by medical personnel.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

#### 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.

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

Hazards from the substance or mixture

: 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

nitrogen oxides sulfur 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. 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** 

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

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#### 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). Do not ingest. Avoid contact with eyes, skin and clothing. 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.

#### 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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
Muminiums powder (stabilized)	Regulation on Limit Values - MAC (Austria, 12/2024) TWA 8 hours: 10 mg/m³. Form: Inhalable fraction. PEAK 60 minutes: 20 mg/m³ 2 times per shift. Form: Inhalable fraction. PEAK 60 minutes: 10 mg/m³ 2 times per shift. Form: Respirable fraction. TWA 8 hours: 5 mg/m³. Form: Respirable fraction.
Muminiums powder (stabilized)	Limit values (Belgium, 12/2023) [Aluminium (metaal en onoplosbare verbindingen)] TWA 8 hours: 1 mg/m³. Form: Respirable fraction.
Polyethylene wax	Limit values (Belgium, 12/2023) TWA 8 hours: 2 mg/m³. Form: Fume.
Muminiums powder (stabilized)	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) Limit value 8 hours: 2 mg/m³ (as Aluminum).
Muminiums powder (stabilized)	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)  ELV 8 hours: 4 mg/m³. Form: Respirable dust.  ELV 8 hours: 10 mg/m³. Form: total dust, inhalable particles.
Polyethylene wax	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) STELV 15 minutes: 6 mg/m³. Form: Fume.

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No exposure limit value known.

Muminiums powder (stabilized)

Ørganic dust

Aluminiums powder (stabilized)

Polyethylene wax

Ørganic dust

Aluminiums powder (stabilized)

Polyethylene wax

No exposure limit value known.

Ørganic dust

Aluminiums powder (stabilized)

Polyethylene wax

Muminiums powder (stabilized)

Polyethylene wax

**Ø**rganic dust

Aluminiums powder (stabilized)

ELV 8 hours: 2 mg/m3. Form: Fume.

Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [hliník a jeho oxidy (s výjimkou gama AI2O3)]

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: Dust.

Working Environment Authority (Denmark)

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

Working Environment Authority (Denmark, 12/2024)

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: powder and dust, total. TWA 8 hours: 2 mg/m<sup>3</sup>. Form: powder or dust, respirable. STEL 15 minutes: 4 mg/m<sup>3</sup>. Form: powder or dust, respirable. STEL 15 minutes: 10 mg/m³. Form: powder and dust, total.

Working Environment Authority (Denmark, 12/2024)

TWA 8 hours: 2 mg/m³. Form: Fume. STEL 15 minutes: 4 mg/m³. Form: Fume.

Occupational exposure limits, Regulation No. 293 (Estonia)

TWA 8 hours: 5 mg/m<sup>3</sup>.

Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [alumiiniumi lahustuvad ühendid]

TWA 8 hours: 2 mg/m<sup>3</sup>.

Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [alumiinium, metalliline ja oksiidid]

TWA 8 hours: 4 mg/m³. Form: Respirable dust. TWA 8 hours: 10 mg/m<sup>3</sup>. Form: Total dust.

Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)

TWA 8 hours: 2 mg/m³. Form: Vapour.

Institute of Occupational Health, Ministry of Social Affairs (Finland)

STEL 15 minutes: 10 mg/m<sup>3</sup>. TWA 8 hours: 5 mg/m<sup>3</sup>.

Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)

TWA 8 hours: 1.5 mg/m³ (calculated as Al). Form: Aerosol. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Parafiinihuurut]

TWA 8 hours: 1 mg/m<sup>3</sup>. Form: Fume.

Ministry of Labor (France, 6/2024)

TWA 8 hours: 10 mg/m<sup>3</sup>. Notes: Permissible limit values (circulars)

TWA 8 hours: 5 mg/m<sup>3</sup>. Form: powder. Notes: Permissible limit values (circulars)

Ministry of Labor (France, 6/2024)

TWA 8 hours: 2 mg/m³. Form: Fume. Notes: Permissible limit values (circulars)

**DFG MAC-values list (Germany)** 

TWA 8 hours: 5 mg/m<sup>3</sup>.

TRGS 900 OEL (Germany, 6/2024) [Allgemeiner Staubgrenzwert]

TWA 8 hours: 1.25 mg/m³. Form: Respirable fraction. PEAK 15 minutes: 20 mg/m<sup>3</sup>. Form: Inhalable fraction. TWA 8 hours: 10 mg/m<sup>3</sup>. Form: Inhalable fraction. PEAK 15 minutes: 2.5 mg/m³. Form: Respirable fraction.

DFG MAC-values list (Germany, 7/2024) [Aluminium] compounds, soluble (non-irritating)] Develop C.

PEAK 15 minutes: 0.01 mg/m³ 4 times per shift [Interval: 1 hour].

Form: inhalable fraction.

TWA 8 hours: 0.005 mg/m³. Form: inhalable fraction. DFG MAC-values list (Germany, 7/2024) [Aluminium

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compounds, soluble (irritating)] Develop C.

PEAK 15 minutes: 0.0004 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.

TWA 8 hours: 0.0002 mg/m³. Form: inhalable fraction.

DFG MAC-values list (Germany, 7/2024) [Aluminium and its poorly soluble compounds] Carc 4, Develop D.

PEAK 15 minutes: 4 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.

PEAK 15 minutes: 0.4 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].

TWA 8 hours: 0.5 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.05 mg/m³. Form: respirable fraction.

zinc di(benzothiazol-2-yl) disulphide

DFG MAC-values list (Germany, 7/2024) [Zinc and its inorganic compounds] Develop C.

PEAK 15 minutes: 0.4 mg/m³ 4 times per shift [Interval: 1 hour].

Form: respirable fraction.

Form: respirable fraction.

TWA 8 hours: 2 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.1 mg/m<sup>3</sup>. Form: respirable fraction.

PEAK 15 minutes: 4 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour].

Form: inhalable fraction.

Muminiums powder (stabilized)

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)

TWA 8 hours: 10 mg/m³ (as Al). Form: Welding fume.

TWA 8 hours: 10 mg/m<sup>3</sup>. Form: Dust.

Polyethylene wax

Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume. STEL 15 minutes: 6 mg/m<sup>3</sup>. Form: Fume.

Muminiums powder (stabilized)

5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)

TWA 8 hours: 1 mg/m³ (as Al). Form: Respirable.

Muminiums powder (stabilized)

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [ÁI]

STEL 15 minutes: 10 mg/m<sup>3</sup>. Form: powder and dust. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: powder and dust.

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Alreykur]

TWA 8 hours: 5 mg/m³ (as Al). Form: Fume.

Polyethylene wax

Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)

TWA 8 hours: 2 mg/m³. Form: Fume.

Muminiums powder (stabilized) NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs)

OELV 8 hours: 10 mg/m³. Form: inhalable dust.

OELV 8 hours: 5 mg/m<sup>3</sup>. Form: fume.

OELV 8 hours: 1 mg/m<sup>3</sup>. Form: respirable fraction.

Polyethylene wax NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs)

OELV 8 hours: 2 mg/m<sup>3</sup>. Form: fume. OELV 15 minutes: 6 mg/m<sup>3</sup>. Form: fume.

No exposure limit value known.

Muminiums powder (stabilized)

[Alumīnijs un tā sakausējumi] TWA 8 hours: 2 mg/m³ (as aluminium).

Muminiums powder (stabilized)

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [aliuminis ir tirpūs jo junginiai]

Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)

TWA 8 hours: 1 mg/m³ (as Al).

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

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**Organic** dust FOR-2011-12-06-1358 (Norway) TWA 8 hours: 5 mg/m<sup>3</sup>. FOR-2011-12-06-1358 (Norway, 5/2024) Aluminiums powder (stabilized) TWA 8 hours: 5 mg/m<sup>3</sup>. Form: pyrophoric powder. Polyethylene wax FOR-2011-12-06-1358 (Norway, 5/2024) TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume. **Organic** dust Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland) TWA 8 hours: 10 mg/m<sup>3</sup>. Regulation of the Minister of Family, Labor and Social Policy Aluminiums powder (stabilized) of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) TWA 8 hours: 2.5 mg/m<sup>3</sup>. Form: Inhalable fraction. TWA 8 hours: 1.2 mg/m<sup>3</sup>. Form: Respirable fraction. Polyethylene wax Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286) (Poland, 7/2024) TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Inhalable fraction. Muminiums powder (stabilized) Portuguese Institute of Quality (Portugal, 11/2014) [alumínio e compostos insolúveis] A4. TWA 8 hours: 1 mg/m³ (expressed as AI). Form: Respirable fraction. Polyethylene wax Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume. Muminiums powder (stabilized) HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [aluminiu și oxizi] VLA 8 hours: 3 mg/m³. Form: Dust. Short term 15 minutes: 10 mg/m3. Form: Dust. VLA 8 hours: 1 mg/m<sup>3</sup>. Form: Fume. Short term 15 minutes: 3 mg/m³. Form: Fume. Polyethylene wax HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) VLA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume. Short term 15 minutes: 6 mg/m³. Form: Fume. Muminiums powder (stabilized) Government regulation SR c. 355/2006 (Slovakia, 6/2024) Inhalation sensitiser. TWA 8 hours: 1.5 mg/m<sup>3</sup>. Form: Respirable fraction. TWA 8 hours: 4 mg/m³. Form: Inhalable fraction. Polyethylene wax Government regulation SR c. 355/2006 (Slovakia, 6/2024) Inhalation sensitiser. STEL 15 minutes: 6 mg/m<sup>3</sup>. Form: Fume. TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume. zinc di(benzothiazol-2-yl) disulphide Government regulation SR c. 355/2006 (Slovakia, 6/2024) [zinok a jeho anorganické zlúčeniny] Inhalation sensitiser. TWA 8 hours: 0.1 mg/m³ (Zinc and its inorganic compounds). Form: Respirable fraction. Inhalable fraction.

TWA 8 hours: 2 mg/m³ (Zinc and its inorganic compounds). Form:

No exposure limit value known.

Muminiums powder (stabilized)

Polyethylene wax

National institute of occupational safety and health (Spain,

TWA 8 hours: 1 mg/m<sup>3</sup>. Form: Respirable dust.

National institute of occupational safety and health (Spain, 1/2024)

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume.

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Ørganic dust	Work environment authority Regulation 2018:1 (Sweden)
Aluminiums powder (stabilized)	TWA 8 hours: 5 mg/m³.  Work environment authority Regulation 2018:1 (Sweden, 11/2022) [aluminium, soluble compounds]  TWA 8 hours: 1 mg/m³ (as Al). Form: Total dust.  Work environment authority Regulation 2018:1 (Sweden, 11/2022) [aluminium and oxide]  TWA 8 hours: 2 mg/m³ (as Al). Form: respirable fraction.  TWA 8 hours: 5 mg/m³ (as Al). Form: Total dust.
Muminiums powder (stabilized)	SUVA (Switzerland, 1/2025)
Polyethylene wax	TWA 8 hours: 3 mg/m³. Form: Respirable fraction. <b>SUVA (Switzerland, 1/2025)</b> TWA 8 hours: 2 mg/m³. Form: respirable dust and fumes.
No exposure limit value known.	

### **Biological exposure indices**

Product/ingredient name	Exposure indices
Muminiums powder (stabilized)	VGU BEI (Austria, 9/2020) BEI Fitness: 60 μg/g Kreatinin, aluminium [in urine]. Sampling time: one year.
No exposure indices known.	
No exposure indices known.	
Muminiums powder (stabilized)	Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023)  BEI: 200 µg/l, aluminium [in urine]. Sampling time: at the end of the work shift.
No exposure indices known.	
Muminiums powder (stabilized)	DFG BEI-values list (Germany, 7/2024)  BEI: 50 μg/g creatinine, aluminium [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts.  TRGS 903 - BEI Values (Germany, 10/2024)  BEI: 50 μg/g creatinine, aluminum [in urine]. Sampling time: at the end of the shift, for long-term exposure after several previous shifts.
No exposure indices known.	
Muminiums powder (stabilized)	5/2020. (II. 6.) ITM Decree (Hungary, 12/2023)  BEI: 0.25 μmol/mmol creatinine, aluminium [in urine]. Sampling time: not critical.  BEI: 0.06 mg/g creatinine, aluminium [in urine]. Sampling time: not critical.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
Muminiums powder (stabilized)	Minister Cabinet Regulations No.325 - BEI (Latvia, 3/2024) [alumīnijs] BEI: 50 µg/g creatinine, aluminium [in urine]. Sampling time: at the end of the shift after several previous shifts.
No exposure indices known.	

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No exposure indices known.

Muminiums powder (stabilized)

Muminiums powder (stabilized)

No exposure indices known.

No exposure indices known.

No exposure indices known.

Muminiums powder (stabilized)

No exposure indices known.

# HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [aluminiu]

OBLV: 200 µg/l, aluminum [in urine]. Sampling time: end of shift.

Government regulation SR c. 355/2006 (Slovakia, 6/2024)

BLV: 251.8 nmol/mmol creatinine, as aluminum [in urine]. Sampling time: no limitation.

BLV: 60 μg/g creatinine, as aluminum [in urine]. Sampling time: no limitation.

#### SUVA (Switzerland, 1/2025)

BEI: 50 μg/g creatinine, aluminium [in urine]. Sampling time: with long-term exposure: after several previous shifts.

BEI: 0.21 µmol/mmol creatinine, aluminium [in urine]. Sampling time: with long-term exposure: after several previous shifts.

# 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**

zínc di(benzothiazol-2-yl) disulphide

#### Result

### DNEL - General population - Long term - Oral

0.6 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

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1 mg/m<sup>3</sup>

Effects: Systemic

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

1.2 mg/kg bw/day Effects: Systemic

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

3.3 mg/kg bw/day Effects: Systemic

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

5.9 mg/m<sup>3</sup>

Effects: Systemic

#### **PNECs**

Not available.

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#### 8.2 Exposure controls

Appropriate engineering controls

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

#### 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. 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 gloves according to EN374 to protect against skin effects from powders.

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

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Filter type: P 2

**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** : Solid. Colour : Various Odour Slight

: Not available. **Odour threshold** 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
Nethylene wax	341 to 665	645.8 to 1229	EN ISO 15199
Aluminiums powder (stabilized)	2450	4442	

**Flammability** : Not available.

Lower and upper explosion

limit

: Lower: Not applicable. Upper: Not applicable.

: Not applicable. Flash point

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** : Not available.

: Not available. pН : Not available. **Viscosity** 

Solubility(ies)

Not available.

: Not available. Solubility in water

water

Partition coefficient: n-octanol/ : Not applicable.

Vapour pressure : Not available. **Relative density** : Not available. : 1.5 g/cm<sup>3</sup> **Density** Vapour density : Not applicable.

**Particle characteristics** 

Median particle size : 40 µm

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

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

9.2.2 Other safety characteristics

Not applicable.

## **SECTION 10: Stability and reactivity**

: No specific test data related to reactivity available for this product or its ingredients. 10.1 Reactivity

: The product is stable. 10.2 Chemical stability

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

zı́nc di(benzothiazol-2-yl) disulphide Rat - Oral - LD50

540 mg/kg

Result

Conclusion/Summary [Product] : Not available.

**Acute toxicity estimates** 

N/A

Skin corrosion/irritation

Not available.

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

Serious eye damage/eye irritation

Not available.

**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.

**Reproductive toxicity** 

Not available.

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

Specific target organ toxicity (single exposure)

Not available.

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

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

Not available.

#### **Aspiration hazard**

Not available.

#### Information on likely routes of exposure

Not available.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

#### 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 [Product] : Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

**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)

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

#### 11.2.2 Other information

Not available.

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

#### 12.1 Toxicity

Not available.

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

#### 12.2 Persistence and degradability

Not available.

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

Conclusion/Summary [Product] : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
₹nc di(benzothiazol-2-yl) disulphide		<8 [Bioaccumulation test of chemical substance in fish and shellfish]	Low

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
☑nc di(benzothiazol-2-yl) disulphide	2.3	178.154

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	Т	vPvM	vP	vM
zínc di(benzothiazol-2-yl) disulphide	No	No	No	No	No	No	No

**Mobility** : Not available.

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

### 12.5 Results of PBT and vPvB assessment

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

Product/ingredient name	PBT	P	В	T	vPvB	vP	vB
☑nc di(benzothiazol-2-yl) disulphide	No	N/A	No	No	No	N/A	No

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

Product/ingredient name	PBT	P	В	Т	vPvB	vP	vB
zínc di(benzothiazol-2-yl) disulphide	No	No	No	No	No	No	No

**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.

The product does not meet the criteria to be considered as having endocrine **Conclusion/Summary [Product]** 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** : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container

in accordance with all local, regional, national and international regulations.

**Hazardous waste** 

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

**European waste** catalogue (EWC) : 080201

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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

Labelling

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s)

: 3907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

Total percentage of synthetic polymer microparticles

: 61.4%

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Other EU regulations

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### SECTION 15: Regulatory information

**Industrial emissions** (integrated pollution

prevention and control) -

**Industrial emissions** (integrated pollution prevention and control) -

Water

**Explosive precursors** 

: Listed

: Listed

: This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions,

and significant disappearances and thefts should be reported to the relevant national contact point.

#### 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.

#### **National regulations**

#### **Austria**

Limitation of the use of

: Permitted.

organic solvents

#### **Belgium**

#### Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Noirs de charbon	Listed

#### **Czech Republic**

#### **Denmark**

#### Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Manium dioxide	Listed	-
carbon black respirable	Listed	-

**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.

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

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

**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

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

**Finland France** 

Social Security Code, Articles L 461-1 to L 461-7 : Polyethylene wax

**RG 36** 

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) : 13 **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 [Class]	Description	%
<b>5</b> .2.1	Total dust	99.5
5.2.5	Organic substances	0.091
5.2.5 [1]	Organic substances	0.091
5.2.7.1.3	Reproductive toxic substances	0.036
5.2.7.2	Poorly degradable, easily accumulating and highly toxic organic substances	0.33

**Italy** 

D.Lgs. 152/06 : Not determined.

**Netherlands** 

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

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

Ingredient name	Carcinogen		Reproductive toxicity - Fertility		Harmful via breastfeeding	
auminiumverbindingen, oplosbaar	-	-	-	Development 1B	Listed	1

**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

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

#### **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	
Aquatic Chronic 3, H412	Calculation method	

#### Full text of abbreviated H statements

<b>⊮</b> 317	May cause an allergic skin reaction.
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.

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

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#### **SECTION 16: Other information**

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

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Skin Sens. 1 SKIN SENSITISATION - Category 1

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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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