# SAFETY DATA SHEET



INFRALIT PE 8317-09 - All variants

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

1.1 Product identifier

Product name : INFRALIT PE 8317-09 - 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]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

#### 2.2 Label elements

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label

elements

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

Safety data sheet available on request.

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

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vPvB.

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# **SECTION 2: Hazards identification**

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	<0.25	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	M [Acute] = 1 M [Chronic] = 1	[1]

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

Type

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.

Get medical attention if symptoms occur. 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. Get medical attention if symptoms

occur.

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.

**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

: No specific fire or explosion hazard.

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).

#### 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. 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.

# 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** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : 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
Muminium 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.
Muminium 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.
Muminium 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).
Muminium 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. ELV 8 hours: 2 mg/m³. Form: Fume.
No exposure limit value known.	

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Muminium powder (stabilized)

**Ø**rganic dust

Aluminium powder (stabilized)

Polyethylene wax

**Organic** dust

Aluminium powder (stabilized)

Polyethylene wax

No exposure limit value known.

**Ø**rganic dust

Aluminium powder (stabilized)

Polyethylene wax

Muminium powder (stabilized)

Polyethylene wax

**Organic** dust

Aluminium powder (stabilized)

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/m<sup>3</sup>. Form: Fume. STEL 15 minutes: 4 mg/m<sup>3</sup>. 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/m<sup>3</sup>. Form: Respirable dust. TWA 8 hours: 10 mg/m³. 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 AI). 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/m³. 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/m³. 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

compounds, soluble (irritating)] Develop C. PEAK 15 minutes: 0.0004 mg/m<sup>3</sup> 4 times per shift [Interval: 1

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hour]. Form: inhalable fraction.

TWA 8 hours: 0.0002 mg/m<sup>3</sup>. 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].

Form: respirable fraction.

TWA 8 hours: 0.5 mg/m<sup>3</sup>. Form: inhalable fraction. TWA 8 hours: 0.05 mg/m<sup>3</sup>. 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.

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

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.

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/m³. Form: Fume.

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

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

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

STEL 15 minutes: 10 mg/m³. 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/m<sup>3</sup> (as AI). Form: Fume.

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

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

NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure

Limit Values (OELVs)

OELV 8 hours: 10 mg/m<sup>3</sup>. 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.

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/m³. Form: fume.

Muminium powder (stabilized) Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024) [Alumīnijs un tā sakausējumi]

TWA 8 hours: 2 mg/m<sup>3</sup> (as aluminium).

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

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TWA 8 hours: 1 mg/m³ (as Al).

Muminium powder (stabilized)

Polyethylene wax

Muminium powder (stabilized)

Muminium powder (stabilized)

Polyethylene wax

Muminium powder (stabilized)

Polyethylene wax

No exposure limit value known.

Muminium powder (stabilized)

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) Aluminium powder (stabilized) TWA 8 hours: 5 mg/m³. 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 Aluminium 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. Muminium powder (stabilized) Portuguese Institute of Quality (Portugal, 11/2014) [alumínio e compostos insolúveis] A4. TWA 8 hours: 1 mg/m³ (expressed as Al). Form: Respirable fraction. Polyethylene wax Portuguese Institute of Quality (Portugal, 11/2014) TWA 8 hours: 2 mg/m³. Form: Fume. Muminium 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. Muminium 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. TWA 8 hours: 2 mg/m³ (Zinc and its inorganic compounds). Form: Inhalable fraction.

No exposure limit value known.

Polyethylene wax

Muminium powder (stabilized) 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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<b>Ø</b> rganic dust	Work environment authority Regulation 2018:1 (Sweden)
	TWA 8 hours: 5 mg/m³.
Aluminium powder (stabilized)	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.
Muminium powder (stabilized)	SUVA (Switzerland, 1/2025)
	TWA 8 hours: 3 mg/m³. Form: Respirable fraction.
Polyethylene wax	SUVA (Switzerland, 1/2025)
	TWA 8 hours: 2 mg/m³. Form: respirable dust and fumes.
No exposure limit value known.	

# **Biological exposure indices**

Product/ingredient name	Exposure indices
Muminium powder (stabilized)	<b>VGU BEI (Austria, 9/2020)</b> BEI Fitness: 60 μg/g Kreatinin, aluminium [in urine]. Sampling time: one year.
No exposure indices known.	
No exposure indices known.	
Muminium 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.	
Muminium 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.	
Auminium 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.	
Muminium 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.

Muminium powder (stabilized)

Muminium powder (stabilized)

No exposure indices known.

No exposure indices known.

No exposure indices known.

Muminium powder (stabilized)

No exposure indices known.

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

OBLV: 200  $\mu$ g/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.

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:

**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

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

Initial boiling point and

boiling range

Ingredient name	°C	°F	Method
Nethylene wax	341 to 665	645.8 to 1229	EN ISO 15199
Aluminium powder (stabilized)	2327	4220.6	

**Flammability** : Not available.

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

Lower and upper explosion

limit

: Lower: Not applicable. Upper: Not applicable.

Flash point : Mot applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

pH : Not available.

Viscosity : Mot available.

Solubility(ies)

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

wate

Vapour pressure: Not available.Relative density: Not available.Density: ₹.6 g/cm³Vapour 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.

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

zínc di(benzothiazol-2-yl) disulphide Rat - Oral - LD50 540 mg/kg

Conclusion/Summary [Product] : Not available.

**Acute toxicity estimates** 

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# **SECTION 11: Toxicological information**

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.

# Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

# Information on likely routes of exposure

Not available.

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# **SECTION 11: Toxicological information**

#### 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)

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.

**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

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# **SECTION 12: Ecological information**

#### 12.4 Mobility in soil

## Soil/water partition coefficient

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

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	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	Т	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	Р	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.

**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** 

: 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** 

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

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

**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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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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.

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.

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Total percentage of

**59**%

synthetic polymer microparticles

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

**Industrial emissions** : Listed

(integrated pollution prevention and control) -

**Industrial emissions** : Listed

(integrated pollution prevention and control) -

Water

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# SECTION 15: Regulatory information

#### **Explosive precursors**

: 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 organic solvents

: Permitted.

## **Belgium**

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

Ingredient name	Status
<b>S</b> ílice	Listed
Noirs de charbon	Listed

## **Czech Republic**

#### **Denmark**

## Executive Order No. 1795/2015

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

## **MAL-code**

: 00-6

#### **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: 00-6

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new\* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair in closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomising spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc, for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

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# **SECTION 15: Regulatory information**

- Protective clothing must be worn.

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

- Air-supplied full mask and protective clothing 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.

- Air-supplied full mask, protective clothing 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

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

**RG 36** 

by Danish working environment legislation on cancer risks.

**Finland** 

**France** 

**Germany** 

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

**Reinforced medical** 

medical surveillance: not applicable

surveillance

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	99.6
5.2.5	Organic substances	0.16
5.2.5 [I]	Organic substances	0.081
5.2.7.2	Poorly degradable, easily accumulating and highly toxic organic substances	0.24

<u>Italy</u>

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	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding	
aluminiumverbindingen,	-	-	-	Development 1B	Listed	
oplosbaar silica kristallijn; respirabel stof	Listed	-	-	-	-	

**Water Discharge Policy** 

(ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

**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.

1272/20081

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]

Not classified.

## Full text of abbreviated H statements

**H**317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic 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

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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