## SAFETY DATA SHEET



**Label No: 17422** 

INFRALIT EP/PE 8086-05 - All variants

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

1.1 Product identifier

Product name : INFRALIT EP/PE 8086-05 - 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 Acute 1, H400 Aquatic Chronic 1, H410

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** : H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

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

**Response** : P391 - Collect spillage.

Storage : Not applicable.

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

national and international regulations.

Supplemental label

elements

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#### SECTION 2: Hazards identification

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

: 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
Zinc powder - zinc dust (stabilized)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6	≥50 - ≤75	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Lead (Pb)	EC: 231-100-4 CAS: 7439-92-1 Index: 082-013-00-1	<0.01	Repr. 1A, H360FD Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	Repr. 1A, H360D: C ≥ 0.03% M [Acute] = 10 M [Chronic] = 100	[1] [2] [3]

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

Skin contact

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance with carcinogenic, mutagenic or reproductive toxicity properties

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

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact : Imm

: 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.

: 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

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

**Eve 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 : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

metal oxide/oxides

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

**Hazards from the** substance or mixture : This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** products

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

#### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### 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. Collect spillage.

#### 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.

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

#### 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.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). 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.

#### **Seveso Directive - Reporting thresholds**

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
<b>▶</b> 1	100 tonnes	200 tonnes

#### 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
☑ead (Pb)	Regulation on Limit Values - MAC (Austria, 12/2024) [Blei und seine Verbindungen außer Bleiarsenat, Bleichromat, Bleichromatoxid und Alkylbleiverbindungen] F, D, L.  TWA 8 hours: 0.1 mg/m³ (measured as Pb). Form: Inhalable fraction.  PEAK 15 minutes: 0.4 mg/m³ (measured as Pb), 4 times per shift.  Form: Inhalable fraction.

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#### SECTION 8: Exposure controls/personal protection ead (Pb) Biological limit values (Belgium, 12/2023) [Lood en ionenverbindingen van lood] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Limit values (Belgium, 12/2023) [Anorganisch lood en verbindingen daarvan] TWA 8 hours: 0.15 mg/m³ (as Pb). Lead (Pb) Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (BEI). (Bulgaria, 4/2024) [lead and its ionic compounds] OEL surveillance 8 hours: 0.05 mg/m³ (lead). Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (OEL). (Bulgaria, 4/2024) [inorganic lead and its compounds] Limit value 8 hours: 0.05 mg/m<sup>3</sup>. Lead (Pb) Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [olovo i njegovi ionski spojevi] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [olovo i njegovi anorganski spojevi] Repr 1A. ELV 8 hours: 0.15 mg/m<sup>3</sup>. Lead (Pb) Department of labour inspection (Cyprus, 7/2021) [Ανόργανος μόλυβδος και οι ενώσεις του] TWA 8 hours: 0.15 mg/m<sup>3</sup>. Lead (Pb) Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) Repr. TWA 8 hours: 0.05 mg/m<sup>3</sup>. STEL 15 minutes: 0.2 mg/m<sup>3</sup>. **Organic** dust Working Environment Authority (Denmark) TWA 8 hours: 3 mg/m<sup>3</sup>. Lead (Pb) Working Environment Authority (Denmark, 12/2024) TWA 8 hours: 0.05 mg/m<sup>3</sup> (calculated as Pb). Form: powder, dust, STEL 15 minutes: 0.1 mg/m³ (calculated as Pb). Form: powder, dust. fume. **Ø**rganic dust Occupational exposure limits, Regulation No. 293 (Estonia) TWA 8 hours: 5 ma/m<sup>3</sup>. Lead (Pb) Biological exposure limits, Regulation number 193 (Estonia, 4/2024) [Plii ja selle ioonsete ühendite] OEL surveillance 8 hours: 75 µg/m³ (lead). Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [plii ja anorgaanilised ühendid] Repr. TWA 8 hours: 0.1 mg/m³ (calculated as Pb). Form: Total dust. TWA 8 hours: 0.05 mg/m³ (calculated as Pb). Form: Respirable Lead (Pb) EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.015 mg/m³ (lead). EU OEL (Europe, 3/2024) [lead and its inorganic compunds] Non-threshold reprotoxic substance.. TWA 8 hours: 0.03 mg/m<sup>3</sup>. **Ø**rganic dust Institute of Occupational Health, Ministry of Social Affairs (Finland) TWA 8 hours: 5 mg/m<sup>3</sup>. STEL 15 minutes: 10 mg/m<sup>3</sup>. Institute of Occupational Health, Ministry of Social Affairs Lead (Pb) (Finland, 10/2021) CARC. Ototoxicant.

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TWA 8 hours: 0.1 mg/m³ (calculated as Pb).

#### SECTION 8: Exposure controls/personal protection ead (Pb) Ministry of Labor (France, 6/2024) [Plomb métallique et composés1 TWA 8 hours: 0.1 mg/m³ (as Pb). Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code) **Ø**rganic dust DFG MAC-values list (Germany) TWA 8 hours: 5 mg/m<sup>3</sup>. Zinc powder - zinc dust (stabilized) DFG MAC-values list (Germany, 7/2024) [Zinc and its inorganic compounds] Develop C. PEAK 15 minutes: 0.4 mg/m<sup>3</sup> 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/m³. Form: respirable fraction. PEAK 15 minutes: 4 mg/m<sup>3</sup> 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. Lead (Pb) DFG MAC-values list (Germany, 7/2024) [Lead and its inorganic compounds except lead arsenate and lead chromate] Carc 4, Muta 3A, Develop A. PEAK 15 minutes: 0.032 mg/m³ (as Pb), 4 times per shift [Interval: 1 hour]. Form: inhalable dust. TWA 8 hours: 0.004 mg/m³ (as Pb). Form: inhalable dust. Lead (Pb) Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [μόλυβδος και ανόργανες ενώσεις του] TWA 8 hours: 0.15 mg/m<sup>3</sup>. Presidential Decree 338/2001: Biological limit values (Greece, 8/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Lead (Pb) 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [ólom és szervetlen vegyületei] TWA 8 hours: 0.15 mg/m³ (as Pb). Lead (Pb) Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Blý, ólífræn sambönd] TWA 8 hours: 0.05 mg/m³ (as Pb). Form: powder, dust and fume. Lead (Pb) NAOSH (Ireland, 4/2024) [inorganic lead and its compounds] Repr 1A. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 0.15 mg/m<sup>3</sup>. NAOSH (Ireland, 4/2024) [lead and its ionic compounds] OEL surveillance 8 hours: 0.075 mg/m³ (lead). Lead (Pb) Legislative Decree No. 81/2008. Annex XXXIX. Mandatory biological limit values (Italy, 9/2024) [piombo e suoi composti ionicil OEL surveillance 8 hours: 0.075 mg/m³ (lead). Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024) [piombo inorganico e i suoi composti] Limit value 8 hours: 0.15 mg/m<sup>3</sup>. Lead (Pb) EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds] OEL surveillance 8 hours: 0.015 mg/m³ (lead). EU OEL (Europe, 3/2024) [lead and its inorganic compunds] Non-threshold reprotoxic substance.. TWA 8 hours: 0.03 mg/m<sup>3</sup>. Lead (Pb) Minister of Social Security and Labor and Minister of Health Protection, Order No. 97/406 (Lithuania, 1/2024) [Švinas ir jo ioniniai iunginiail OEL surveillance 8 hours: 0.075 mg/m³ (lead). Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [švinas ir jo neorganinai junginiai] Repr. TWA 8 hours: 0.07 mg/m³ (as Pb). Form: Respirable fraction.

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TWA 8 hours: 0.15 mg/m³ (as Pb). Form: Inhalable fraction.

ead (Pb)

Lead (Pb)

Lead (Pb)

Ørganic dust

Lead (Pb)

**Ø**rganic dust

Lead (Pb)

Lead (Pb)

Grand-Duchy Regulation 2016. Biological limit values. Annex II (Luxembourg, 3/2021) [Plomb et ses composés ioniques]

OEL surveillance 8 hours: 0.075 mg/m³ (lead).

Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021) [plomb métallique et ses composés] TWA 8 hours: 0.15 mg/m<sup>3</sup>.

EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]

OEL surveillance 8 hours: 0.015 mg/m³ (lead).

EU OEL (Europe, 3/2024) [lead and its inorganic compunds] Non-threshold reprotoxic substance..

TWA 8 hours: 0.03 mg/m<sup>3</sup>.

Ministry of Social Affairs and Employment, Biological limit values (Netherlands, 5/2024) [lood]

OEL for frequence of measurement 8 hours: 100 µg/m³ (lead). Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [lood en anorganische loodverbindingen] Repr B3.

TWA 8 hours: 0.15 mg/m<sup>3</sup>.

FOR-2011-12-06-1358 (Norway)

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

FOR-2011-12-06-1358 (Norway, 5/2024) [bly og uorganiske blyforbindelser] Repr.

TWA 8 hours: 0.05 mg/m³ (calculated as Pb). Form: Dust and fumes.

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 Ministry of Health of September 16, 2016, Safety and occupational health related to the presence of chemical agents in the workplace (Poland, 7/2024) [ołów i jego zwiazki nieorganicznel

OEL surveillance 8 hours: 0.075 mg/m³ (lead). Form: inhalable fraction.

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) [Lead – inorganic compounds]

TWA 8 hours: 0.05 mg/m³ (calculated as Pb). Form: Inhalable fraction.

Portuguese Institute of Quality (Portugal, 11/2014) [chumbo elementar e compostos inorgânicos] A3.

TWA 8 hours: 0.05 mg/m<sup>3</sup> (expressed as Pb).

Decree-Law 301/2000 - Occupational exposure limits for carcinogenic and mutagenic agents (Portugal, 12/2024) [Chumbo metálico e respetivos compostos]

TWA 8 hours: 0.15 mg/m<sup>3</sup>.

Decree-Law 301/2000 - Biological limit values and health surveillance measures for carcinogenic or mutagenic agents (Portugal, 12/2024) [chumbo e respetivos compostos iónicos]

OEL surveillance 8 hours: 0.075 mg/m<sup>3</sup>.

Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021) [chumbo metálico e respectivos compostos iónicos]

TWA 8 hours: 0.15 mg/m<sup>3</sup>.

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SECTION 8: Exposure contro	
Lead (Pb)	HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [plumbul şi compuşii săi ionici]  OEL surveillance 8 hours: 0.075 mg/m³ (lead).  HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [Plumb şi compuşi]  VLA 8 hours: 0.05 mg/m³.  Short term 15 minutes: 0.1 mg/m³.  HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024) [plumb şi compuşii săi anorganici]  R1A.  VLA 8 hours: 0.15 mg/m³ (expressed in Pb).
Zinc powder - zinc dust (stabilized)	Government regulation SR c. 355/2006 (Slovakia, 6/2024)
Emo powder - zine dust (stabilized)	[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.
Lead (Pb)	Government regulation SR c. 355/2006 (Slovakia, 6/2024) [olovo a jeho zlúčeniny] Repr_1A.  OEL surveillance 8 hours: 0.075 mg/m³ (as lead). Government regulation SR c. 355/2006 (Slovakia, 6/2024) [olovo a jeho organické zlúčeniny] Inhalation sensitiser.  TWA 8 hours: 0.05 mg/m³ (Lead and its organic compounds).
vead (Pb)	Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) [svinec, anorganski in njegove spojine] Repr Fer 1A, Repr Dev 1A.  Peak 15 minutes: 0.4 mg/m³ (calculated as Pb), 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction.  TWA 8 hours: 0.1 mg/m³ (calculated as Pb). Form: Inhalable fraction.
vead (Pb)	National institute of occupational safety and health (Spain, 1/2024) Develop 1A. TWA 8 hours: 0.15 mg/m³.
Ørganic dust	Work environment authority Regulation 2018:1 (Sweden) TWA 8 hours: 5 mg/m³.
Lead (Pb)	Work environment authority Regulation 2018:1 (Sweden, 11/2022) [lead, and inorg. compounds] Repr. Ototoxicant. TWA 8 hours: 0.1 mg/m³ (as Pb). Form: inhalable fraction. TWA 8 hours: 0.05 mg/m³ (as Pb). Form: respirable fraction.
vead (Pb)	SUVA (Switzerland, 1/2025) [Blei und seine Verbindungen, ausser Alkylverbindungen] Carc 2, Repr 1A.  STEL 15 minutes: 0.8 mg/m³ (calculated as Pb). Form: Inhalable fraction.  TWA 8 hours: 0.1 mg/m³ (calculated as Pb). Form: Inhalable fraction.
vead (Pb)	EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc. TWA 8 hours: 0.15 mg/m³.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
<mark>⊄</mark> ead (Pb)	VGU BEI (Austria, 9/2020) [Blei, seine Legierungen oder Verbindungen]
	BEI Inadequacy - women under 50: 10 mg/l, urinary delta- aminolevulinic acid [in urine]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks. BEI Inadequacy - men, women over 50: 20 mg/l, urinary delta-
	aminolevulinic acid [in urine]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work

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two weeks.

BEI Inadequacy - women under 50: 45  $\mu$ g/100 ml, blood lead [in blood]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks.

BEI Inadequacy - men, women over 50: 70 μg/100 ml, blood lead [in blood]. Sampling time: three months, for glass and accumulator works six weeks, for rust prevention work two weeks.

BEI Fitness - women under 50: 6 mg/l, urinary deltaaminolevulinic acid [in urine]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men, women over 50: 10 mg/l, urinary deltaaminolevulinic acid [in urine]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness: 30 μg/100 ml, blood lead [in blood]. Sampling time: one year, For glass and accumulator works: three month, For antirust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness: 120  $\mu$ g/100 ml RBC, erythrocyte protoporphyrin [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men: 35 %, hematocrit [in blood]. Sampling time: one year, For glass and accumulator works: three month, For antirust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - women: 30 %, hematocrit [in blood]. Sampling time: one year, For glass and accumulator works: three month, For antirust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year, For glass and accumulator works: three month, For antirust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

BEI Fitness - women: 3.2 million/µl, erythrocytes [in blood]. Sampling time: one year, For glass and accumulator works: three month, For anti-rust works (including cutting and cutting anti-rust coated parts): four weeks.

## Biological limit values (Belgium, 12/2023) [Lood en ionenverbindingen van lood]

BEI surveillance: 40 µg /100 ml, lead [in blood].

BLV: 70 µg /100 ml, lead [in blood].

Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (BEI). (Bulgaria, 4/2024) [lead and its ionic compounds]

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BEI surveillance: <40 µg/100 ml, lead [in blood].

BEI: 400 µg/l, lead [in blood].

BEI - women under 45: 300 μg/l, lead [in blood].

<mark>∠</mark>ead (Pb)

Lead (Pb)

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**∠**ead (Pb)

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [olovo (elementarno i anorganski spojevi)]

BEI - men: 400 μg/l, lead [in blood]. Sampling time: not critical. BEI: 2.67 μmol/l E, protoporphyrin in erythrocytes [in blood]. Sampling time: after exposure for 2-3 months (sample protected

from light).

BEI: 1.5 mg/l E, protoporphyrin in erythrocytes [in blood]. Sampling time: after exposure for 2-3 months (sample protected from light).

BEI: 15  $\mu$ /I E,  $\delta$ -aminolevulinic acid anhydride [in blood]. Sampling time: not critical.

BEI - women under 45: 300 μg/l, lead [in blood]. Sampling time: not critical.

Ordinance on the protection of workers from exposure to hazardous chemicals at work, biological limit values (Annex IV) (Croatia, 12/2023) [olovo i njegovi ionski spojevi]

BEI surveillance: >40 µg/100 ml, lead [in blood].

BEI: 70 µg/100 ml, lead [in blood].

No exposure indices known.

ead (Pb)

Government regulation of Czech Republic Limit Values of Biological Exposure Tests (Czech Republic, 9/2015) [Olovo]

Biological limit values: 0.035 µmol/mmol creatinine, koproporphyrin [in urine]. Sampling time: not set.

Biological limit values: 0.2 mg/g creatinine, koproporphyrin [in urine]. Sampling time: not set.

Biological limit values: 13 µmol/mmol creatinine, 5-aminolevulic acid [in urine]. Sampling time: not set.

Biological limit values: 15 mg/g creatinine, 5-aminolevulic acid [in urine]. Sampling time: not set.

Biological limit values: 0.4 mg/l, lead [in blood]. Sampling time: not set.

No exposure indices known.

Lead (Pb)

Lead (Pb)

Lead (Pb)

Biological exposure limits, Regulation number 193 (Estonia, 4/2024) [Plii ja selle ioonsete ühendite]

BEI: <6 european units, deltaaminolevulinic acid dehydratase activity in the blood [in blood].

BEI: 20 μg/g hemoglobin, zinc prototoporphyrin in blood [in blood]. BEI: <20 mg/g creatinine, delta aminolevulinic acid in urine [in urine].

BEI: 70 µg Pb/100 ml, lead [in blood].

BEI surveillance: <50 µg Pb/100 ml, lead [in blood].

EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]

BEI surveillance: 30 µg/100 ml, lead [in blood].

BLV: 70 µg/100 ml, lead [in blood].

BEI surveillance - females of reproductive capacity: 4.5 μg/100 ml, lead [in blood].

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Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Lyijy ja sen epaorgaaniset yhdisteet]

BEI: 1.4 µmol/l, lead [in blood]. Sampling time: not criticial.

BEI surveillance: 40 µg/dl, lead [in blood].

BEI removal: 50 µg/dl, lead [in blood].

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ead (Pb)

Lead (Pb)

Lead (Pb)

Lead (Pb)

Biological limit values (BLV) - Labour Code / ANSES (France, 4/2023) [plomb et composés]

BLV surveillance - women: >100 µg/l, lead [in blood]. Sampling time: sample time not specified.

BLV surveillance - men: >200 μg/l, lead [in blood]. Sampling time: sample time not specified.

BLV binding - women: 300 µg/l, lead [in blood]. Sampling time: sample time not specified.

BLV binding - men: 400 µg/l, lead [in blood]. Sampling time: sample time not specified.

DFG BEI-values list (Germany, 7/2024) [Lead and its compounds (except lead arsenate, lead chromate and alkyl lead compounds)]

BEI - women: 30 μg/l, lead [in blood]. Sampling time: no restriction in the steady state.

BEI: 150 µg/l, lead [in blood]. Sampling time: no restriction in the steady state.

BEI - men: 40 μg/l, lead [in blood]. Sampling time: no restriction in the steady state.

TRGS 903 - BEI Values (Germany, 10/2024)

BEI: 150 µg/l, lead [in whole blood]. Sampling time: no restriction in the steady state.

Presidential Decree 338/2001: Biological limit values (Greece, 8/2024) [μόλυβδος και οι ανόργανες του ενώσεις]

BLV surveillance: 40 µg/100 ml, lead [in blood].

BLV: 70 µg/100 ml, lead [in blood].

5/2020. (II. 6.) ITM Decree (Hungary, 12/2023) [ólom (szervetlen)]

BEI - men and women over 45: 300 µg/l, lead [in blood]. Sampling time: not critical.

BEI - men and women over 45: 1.5 µmol/l, lead [in blood]. Sampling time: not critical.

BEI - women under 45: 200 μg/l, lead [in blood]. Sampling time: not critical.

BEI - women under 45: 1 µmol/l, lead [in blood]. Sampling time: not critical.

BEI - men and women over 45: 100 µmol/mol Hb, zincprotoporphyrin prescreening [in blood]. Sampling time: applied 3 months after prolonged exposure.

BEI - women under 45: 80 µmol/mol Hb, zinc-protoporphyrin prescreening [in blood]. Sampling time: applied 3 months after prolonged exposure.

No exposure indices known.

Lead (Pb)

Lead (Pb)

No exposure indices known.

Lead (Pb)

NAOSH (Ireland, 4/2024) [lead and its ionic compounds]

BEI surveillance: >40 µg/100ml, lead [in blood].

BLV: 70 µg/100ml, lead [in blood].

Legislative Decree No. 81/2008, Annex XXXIX, Mandatory biological limit values (Italy, 9/2024) [piombo e suoi composti ionici]

BEI surveillance: 40 µg/100 ml, lead [in blood].

BEI - female workers of a fertile age: 40 µg/100 ml, lead [in blood].

BEI: 60 µg/100 ml, lead [in blood].

Minister of Social Security and Labor and Minister of Health Protection, Order No. 97/406 (Lithuania, 1/2024) [Švinas ir jo joniniai junginiai]

BLV surveillance: 40 µg/100ml, lead [in blood]. Sampling time: sample time not specified.

BLV: 70 µg/100ml, lead [in blood]. Sampling time: sample time not specified.

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ead (Pb)

No exposure indices known.

Lead (Pb)

No exposure indices known.

Lead (Pb)

Lead (Pb)

Lead (Pb)

Lead (Pb)

Grand-Duchy Regulation 2016. Biological limit values. Annex II (Luxembourg, 3/2021) [Plomb et ses composés ioniques]

BEI surveillance: 40 µg /100 ml, lead [in blood].

BLV: 70 µg /100 ml, lead [in blood].

Ministry of Social Affairs and Employment, Biological limit values (Netherlands, 5/2024) [lood]

BLV: 70 µg/100 ml, lead [in blood].

BLV for frequence of measurement: 50 µg/100 ml, lead [in blood].

Regulation of the Ministry of Health of September 16, 2016, Safety and occupational health related to the presence of chemical agents in the workplace (Poland, 7/2024) [ołów i jego związki nieorganiczne z wyjątkiem arsenianu(V) ołowiu(II) oraz chromianu(VI) ołowiu(II) – w przeliczeniu]

BLV: 50 µg Pb/100 ml, lead [in blood]. Form: Inhalable fraction. BEI surveillance: 40 µg Pb/100 ml, lead [in blood]. Form: Inhalable fraction.

Portuguese Institute of Quality (Portugal, 11/2014)

BEI: 30 μg/100 ml, lead [in blood]. Sampling time: not critical. Decree-Law 301/2000 - Biological limit values and health surveillance measures for carcinogenic or mutagenic agents (Portugal, 12/2024) [chumbo e respetivos compostos iónicos]

BEI surveillance: 40 µg/100 ml, lead [in blood].

BEI: 70 µg/100 ml, lead [in blood].

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [plumbul și compușii săi ionici]

OBLV: 100 µg/100 ml erythrocytes, free protoporphyrin erythrocytes [in blood]. Sampling time: end of shift.

OBLV: 300 µg/l, coproporphyrins [in urine]. Sampling time: end of

OBLV: 10 mg/l, deltaaminolevulinic acid [in urine]. Sampling time: end of shift.

OBLV: 3 µg/cm, lead [in hair]. Sampling time: end of shift.

OBLV: 70 µg/100 ml, lead [in blood]. Sampling time: end of shift.

OBLV: 150 µg/l, lead [in urine]. Sampling time: end of shift.

BEI supervision: >40 µg/100 ml, lead [in blood].

HG 1218/2006, Annex 2, with subsequent modifications and additions (Romania, 3/2024) [plumb, compusii neionici]

OBLV: 100 µg/100 ml erythrocytes, free protoporphyrin erythrocytes [in blood]. Sampling time: end of shift.

OBLV: 300 µg/l, coproporphyrins [in urine]. Sampling time: end of

OBLV: 10 mg/l, deltaaminolevulinic acid [in urine]. Sampling time: end of shift.

OBLV: 3 µg/cm, lead [in hair]. Sampling time: end of shift.

OBLV: 70 µg/100 ml, lead [in blood]. Sampling time: end of shift.

OBLV: 150 µg/l, lead [in urine]. Sampling time: end of shift.

Government regulation SR c. 355/2006 (Slovakia, 6/2024) [olovo a jeho zlúčeniny (okrem chrómanu olovnatého, chrómanu arzenitého a alkylovaných zlúčenín)]

BLV: 3.4 µmol/l, as lead [in blood]. Sampling time: no limitation.

BLV: 700 µg/l, as lead [in blood].

BLV surveillance: 400 µg/l, as lead [in blood].

BLV: 43 nmol/mmol creatinine, as coproporphyrins [in urine]. Sampling time: no limitation.

BLV - women under 45: 3.48 μmol/mmol creatinine, as δaminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 8.65  $\mu$ mol/mmol creatinine, as  $\delta$ -aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 0.2 mg/g creatinine, as coproporphyrins [in urine]. Sampling

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time: no limitation.

BLV - women under 45: 4.03 mg/g creatinine, as  $\delta$ -aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 10.03 mg/g creatinine, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 0.45 µmol/l, as coproporphyrins [in urine]. Sampling time: no limitation.

BLV - women under 45: 46.1  $\mu$ mol/l, as  $\delta$ -aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 114.7  $\mu$ mol/l, as  $\delta$ -aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV - women under 45: 485 nmol/l, as lead [in blood]. Sampling time: no limitation.

BLV: 1933 nmol/l, as lead [in blood]. Sampling time: no limitation. BLV: 0.3 mg/l, as coproporphyrins [in urine]. Sampling time: no limitation.

BLV - women under 45: 6 mg/l, as  $\delta$ -aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV: 15 mg/l, as δ-aminolevulinic acid [in urine]. Sampling time: no limitation.

BLV - women under 45: 100 μg/l, as lead [in blood]. Sampling time: no limitation.

BLV: 400 µg/l, as lead [in blood]. Sampling time: no limitation.

# Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024) [svinec]

BAT - women under 45: 300 µg/l, lead [in blood]. Sampling time: not relevant.

BAT - men: 400 µg/l, lead [in blood]. Sampling time: not relevant.

## National institute of occupational safety and health (Spain, 1/2024) [Plomo y sus derivados iónicos]

VLB: 70 µg/dl, lead [in blood]. Sampling time: not critical.

## Work environment authority Regulation 2005:6 (Sweden, 6/2023)

BEI Stop Working - women under 50: >0.5 µmol/l, lead [in blood]. Sampling time: prior to the work and every 6 months.

BEI Monitoring Every 6 Months - men, women over 50: <0.8 µmol/ I, lead [in blood]. Sampling time: prior to the work and every 6 months.

BEI Stop Working - men, women over 50: >1.5 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years.

BEI Investigate - men, women over 50: >1 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years.

BEI No Recurring Control - men, women over 50: <0.4 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years. BEI return - men, women over 50: <1.3 µmol/l, lead [in blood]. Sampling time: prior to the work and every 3 years.

## SUVA (Switzerland, 1/2025) [Blei und seine Verbindungen (ausser Alkylverbindungen)]

BEI: 400 μg/l, (men, women > 45 years of age) [in blood]. Sampling time: not specified.

BEI: 1.93 µmol/l, (men, women > 45 years of age) [in blood]. Sampling time: not specified.

BEI: 100  $\mu$ g/I, (women < 45 years of age) [in blood]. Sampling time: not specified.

BEI: 0.48 µmol/l, (women < 45 years of age) [in blood]. Sampling time: not specified.

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Lead (Pb)

Lead (Pb)

Lead (Pb)

ead (Pb)

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**∠**ead (Pb) EU Biological limit values (Europe, 3/2024) [lead and its inorganic compounds]

BEI surveillance: 30 µg/100 ml, lead [in blood].

BLV: 70 µg/100 ml, lead [in blood].

BEI surveillance - females of reproductive capacity: 4.5 µg/100 ml, lead [in blood].

**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**

Not available.

#### **PNECs**

Not available.

#### 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.

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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

Initial boiling point and

boiling range

: Not available.

Ingredient name	°C	°F	Method
nc powder - zinc dust (stabilized)	908	1666.4	

**Flammability** : Not available.

Lower and upper explosion

limit

Lower: Not applicable. Upper: Not applicable.

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

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

Solubility(ies)

Not available.

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

water

Vapour pressure : Not available. **Relative density** : Not available. : 2.5 g/cm<sup>3</sup> **Density** : Not applicable. Vapour density

**Particle characteristics** 

Median particle size : 40 µm

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

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

9.2.2 Other safety characteristics

Not applicable.

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## **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**

Not available.

Conclusion/Summary [Product] : Not available.

#### **Acute toxicity estimates**

N/A

#### Skin corrosion/irritation

Product/ingredient name Result

Znc powder - zinc dust (stabilized) Human - Skin - Mild irritant

<u>Duration of treatment/exposure</u>: 72 hours <u>Amount/concentration applied</u>: 300 ug I

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**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**

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## **SECTION 11: Toxicological information**

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.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 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.

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

#### 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

Lead (Pb)

#### Product/ingredient name

Zinc powder - zinc dust (stabilized)

#### Result

#### Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate 65 µg/l [48 hours]

Effect: Mortality

#### Acute - IC50 - Marine water

Algae - Diatom - Nitzschia closterium - Exponential growth

phase

65 μg/l [4 days] Effect: Population

#### Chronic - EC10 - Fresh water

Algae - Green algae - Pseudokirchneriella subcapitata -

Exponential growth phase

27.3 μg/l [72 hours] Effect: Population

#### Chronic - EC10 - Fresh water

Daphnia - Water flea - Daphnia magna

Age: <24 hours 59.2 μg/l [21 days] Effect: Reproduction

#### **Chronic - NOEC - Fresh water**

Fish - common carp - Cyprinus carpio

Age: 13 months; Size: 10.5 cm; Weight: 27.8 g

2.6 µg/l [4 weeks] Effect: Accumulation

#### Acute - LC50 - Marine water

Fish - Mudskipper - Periophthalmus waltoni - Adult

12.21 µg/l [96 hours] Effect: Mortality

#### Acute - LC50 - Fresh water

Crustaceans - Water flea - Ceriodaphnia reticulata

Age: <4 hours 530 μg/l [48 hours] Effect: Mortality

#### Acute - LC50 - Fresh water

Fish - common carp - Cyprinus carpio - Juvenile (Fledgling,

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Hatchling, Weanling)

Size: 3.5 cm

0.44 ppm [96 hours] Effect: Mortality

#### **Chronic - NOEC - Marine water**

Algae - Green algae - Ulva pertusa

0.25 mg/l [96 hours] Effect: Reproduction

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## **SECTION 12: Ecological information**

#### Chronic - NOEC - Fresh water

Fish - common carp - Cyprinus carpio

Age: 13 months; Size: 10.5 cm; Weight: 27.8 g

0.03 µg/l [4 weeks] Effect: Accumulation

#### Acute - EC50 - Marine water

Algae - Diatom - Chaetoceros sp. - Exponential growth phase

105 ppb [72 hours] Effect: Population

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

#### 12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

Not available.

#### Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Znc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
Lead (Pb)	No	No	No	No	No	No	No

**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	Т	vPvB	vP	vB
✓inc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
Lead (Pb)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	P	В	T	vPvB	νP	vB
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
Lead (Pb)	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.

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## SECTION 12: Ecological information

#### 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** 

**European waste** catalogue (EWC) The classification of the product may meet the criteria for a hazardous waste.

: 080111\*, 200127\*

**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	UN3077	UN3077	UN3077	UN3077
14.2 UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (PAINT)			
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

#### **Additional information**

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Tunnel code (-)

**ADN** 

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IMDG** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** 

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

## 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.

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### **SECTION 14: Transport information**

14.7 Maritime transport in bulk according to IMO

: 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** 

instruments

None of the components are listed.

#### Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
Poxic to reproduction	lead	Recommended	11th recommendation	4/12/2023

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

Product/ingredient name	%	Designation [Usage]
<b></b>	<0.01	72

Labelling

.abelling .

Synthetic polymer microparticles - Designation 78

**1**7.2%

: Listed

Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

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

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to

#### Other EU regulations

Industrial emissions

(integrated pollution prevention and control) -

**Air** 

Industrial emissions : 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 controlled under the Seveso Directive.

#### **Danger criteria**

Category

**E**1

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## **SECTION 15: Regulatory information**

#### **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
Plomb et ses composés inorganiques	Listed

**Czech Republic** 

Storage code : W

**Denmark** 

Fire class :  $\overline{\mathbb{W}}$ -1 MAL-code :  $\overline{\mathbb{Q}}$ 0-1

**Protection based on MAL** 

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

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

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

MAL-code: 00-1

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

- Arm protectors must be worn.

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

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

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

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

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

\*See Regulations.

List of undesirable substances

: Listed

Finland France

Social Security Code, Articles L 461-1 to L 461-7 : Lead (Pb) RG 1

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## **SECTION 15: Regulatory information**

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 controlled under the Germany Hazardous Incident Ordinance.

#### **Danger criteria**

Category	Reference number
<b>₽</b> 1	1.3.1

Hazard class for water . 2

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
<b>5</b> .2.1	Total dust	39.3
5.2.7.1.3	Reproductive toxic substances	0.08
5.2.10	Soil polluting substances	60.6

Italy

D.Lgs. 152/06 : Not determined.

**Netherlands** 

**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

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

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 Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

#### Full text of abbreviated H statements

₩360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Lact. REPRODUCTIVE TOXICITY - Effects on or via lactation

Repr. 1A REPRODUCTIVE TOXICITY - Category 1A

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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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