SAFETY DATA SHEET

INFRALIT EP 8025-13 - All variants

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

1.1 Product identifier

Product name : INFRALIT EP 8025-13 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person responsible for this SDS : Prod-safe@teknos.com

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]

Eye Dam. 1, H318
Skin Sens. 1, H317
Repr. 1B, H360FD
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 : Danger

Hazard statements :
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H360FD - May damage fertility. May damage the unborn child.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention :
P201 - Obtain special instructions before use.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
P273 - Avoid release to the environment.

Response :
P391 - Collect spillage.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.

Storage : Not applicable.

SECTION 2: Hazards identification

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

Hazardous ingredients : Contains: bisphenol A and 2-methylimidazole

Supplemental label elements :

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

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.

Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006. : Contains bisphenol A. May cause endocrine disruption.

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	Type
copper	EC: 231-159-6 CAS: 7440-50-8	≥10 - <25	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 10 M [Chronic] = 1	[1]
bisphenol A	REACH #: 01-2119457856-23 EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0	≤10	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 10	[1] [2] [3] [4]
Zinc powder - zinc dust (stabilized)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6	≤1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
2-methylimidazole	REACH #: 01-2119980041-46 EC: 211-765-7 CAS: 693-98-1 Index: 613-330-00-0	<1	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 2, H351 Repr. 1B, H360Df **See Section 16 for the full text of the H statements declared above.**	ATE [Oral] = 500 mg/kg	[1] [4]

SECTION 3: Composition/information on ingredients

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

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance of equivalent concern - Endocrine disrupting properties
[4] 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 : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

SECTION 4: First aid measures

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

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.

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
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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. 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

Category	Notification and MAPP threshold	Safety report threshold
E1	100 tonnes	200 tonnes

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

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
copper	**Regulation on Limit Values - MAC (Austria, 12/2024) [Kupfer und seine Verbindungen]** TWA 8 hours: 1 mg/m³ (measured as Cu). Form: Inhalable fraction. PEAK 15 minutes: 4 mg/m³ (measured as Cu), 4 times per shift. Form: Inhalable fraction. **Regulation on Limit Values - MAC (Austria, 12/2024) [Kupfer und seine Verbindungen als Rauch]** TWA 8 hours: 0.1 mg/m³ (measured as Cu). Form: respirable fume. PEAK 15 minutes: 0.4 mg/m³ (measured as Cu), 4 times per shift. Form: respirable fume.
bisphenol A	**Regulation on Limit Values - MAC (Austria, 12/2024)** F. Sensitiser. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction. CEIL: 5 mg/m³. Form: Inhalable fraction.
copper	**Limit values (Belgium, 12/2023)** TWA 8 hours: 0.2 mg/m³ (as Cu). Form: Fume. TWA 8 hours: 1 mg/m³ (as Cu). Form: Dusts and mists.
bisphenol A	**Limit values (Belgium, 12/2023)** TWA 8 hours: 2 mg/m³.
Zinc stearate	**Limit values (Belgium, 12/2023) [Stearaten]** TWA 8 hours: 10 mg/m³.
copper	**Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Copper – metal fumes]** Limit value 8 hours: 0.1 mg/m³ (as copper). Form: Fume.
bisphenol A	**Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 10/2003 (OEL). (Bulgaria, 4/2024)** Limit value 8 hours: 2 mg/m³. Form: inhalable fraction..
copper	**Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [bakar]** ELV 8 hours: 1 mg/m³ (as Cu). Form: Dust. ELV 8 hours: 0.2 mg/m³ (as Cu). Form: Fume. STELV 15 minutes: 2 mg/m³ (as Cu). Form: Dust.
bisphenol A	**Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023)** Repr 1B. Skin sensitiser. ELV 8 hours: 2 mg/m³. Form: Inhalable fraction.
Zinc stearate	**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. STELV 15 minutes: 20 mg/m³. Form: total dust, inhalable particles.
bisphenol A	**Department of labour inspection (Cyprus, 7/2021)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction..

SECTION 8: Exposure controls/personal protection

copper	**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)** TWA 8 hours: 1 mg/m³. Form: dust and inhalable fraction of aerosol. STEL 15 minutes: 2 mg/m³. Form: dust and inhalable fraction of aerosol. STEL 15 minutes: 0.2 mg/m³. Form: fumes and respirable fractions of aerosol. TWA 8 hours: 0.1 mg/m³. Form: fumes and respirable fractions of aerosol.
bisphenol A	**Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023)** Repr. Sensitiser. TWA 8 hours: 2 mg/m³. Form: dust, aerosol, inhalable fraction. STEL 15 minutes: 5 mg/m³. Form: dust, aerosol, inhalable fraction.
Organic dust	**Working Environment Authority (Denmark)** TWA 8 hours: 3 mg/m³.
copper	**Working Environment Authority (Denmark, 12/2024)** TWA 8 hours: 1 mg/m³. Form: powder and dust. STEL 15 minutes: 2 mg/m³. Form: powder and dust.
bisphenol A	**Working Environment Authority (Denmark, 12/2024)** TWA 8 hours: 2 mg/m³. Form: suspended dust. STEL 15 minutes: 4 mg/m³. Form: suspended dust.
Organic dust	**Occupational exposure limits, Regulation No. 293 (Estonia)** TWA 8 hours: 5 mg/m³.
copper	**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [vask ja anorgaanilised ühendid]** TWA 8 hours: 1 mg/m³ (calculated as Cu). Form: Total dust. TWA 8 hours: 0.2 mg/m³ (calculated as Cu). Form: Respirable dust.
bisphenol A	**Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
bisphenol A	**EU OEL (Europe, 1/2022)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
Organic dust	**Institute of Occupational Health, Ministry of Social Affairs (Finland)** STEL 15 minutes: 10 mg/m³. TWA 8 hours: 5 mg/m³.
copper	**Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Kupari ja sen yhdisteet]** TWA 8 hours: 0.02 mg/m³ (calculated as Cu). Form: Respirable fraction. **Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Kupari, huurut ja hienojakoinen kuparipöly]** TWA 8 hours: 0.1 mg/m³ (calculated as Cu). Form: Respirable dust.
bisphenol A	**Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)** TWA 8 hours: 2 mg/m³.
Zinc stearate	**Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021)** TWA 8 hours: 10 mg/m³.
copper	**Ministry of Labor (France, 6/2024) [cuivre (fumées)]** TWA 8 hours: 0.2 mg/m³. Form: Fume. Notes: Permissible limit values (circulars) **Ministry of Labor (France, 6/2024) [cuivre (poussières)]** TWA 8 hours: 1 mg/m³ (as Cu). Form: Dust. Notes: Permissible limit values (circulars) STEL 15 minutes: 2 mg/m³ (as Cu). Form: Dust. Notes: Permissible limit values (circulars)
bisphenol A	

	Ministry of Labor (France, 6/2024) Repr 1B. TWA 8 hours: 2 mg/m³. Form: Dust. Notes: Binding regulatory limit values (article R. 4412-149 of the Labor Code)
Zinc stearate	**Ministry of Labor (France, 6/2024)** TWA 8 hours: 10 mg/m³. Notes: Permissible limit values (circulars)
Organic dust	**DFG MAC-values list (Germany)** TWA 8 hours: 5 mg/m³.
copper	**DFG MAC-values list (Germany, 7/2024) [Copper and its inorganic compounds]** Develop C. PEAK 15 minutes: 0.02 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 0.01 mg/m³. Form: respirable fraction.
bisphenol A	**TRGS 900 OEL (Germany, 6/2024)** Skin sensitiser. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction. PEAK 15 minutes: 5 mg/m³. Form: Inhalable fraction. **DFG MAC-values list (Germany, 7/2024)** Develop C. Phototoxic. TWA 8 hours: 5 mg/m³. Form: inhalable fraction. PEAK 15 minutes: 5 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.
Zinc stearate	**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/m³. Form: inhalable fraction. TWA 8 hours: 0.1 mg/m³. Form: respirable fraction. PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.
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/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction. TWA 8 hours: 2 mg/m³. Form: inhalable fraction. TWA 8 hours: 0.1 mg/m³. Form: respirable fraction. PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction.
copper	**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [χαλκός (καπνός)]** TWA 8 hours: 0.2 mg/m³. Form: Fume. **Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [χαλκός (σκόνη)]** TWA 8 hours: 1 mg/m³. Form: Dust. STEL 15 minutes: 2 mg/m³. Form: Dust.
bisphenol A	**Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
copper	**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)** TWA 8 hours: 0.01 mg/m³ (as Cu). Form: respirable fume.
bisphenol A	**5/2020. (II. 6.) ITM Decree (Hungary, 1/2025)** Repr.(1B). TWA 8 hours: 2 mg/m³.
copper	**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Koparreykur]** TWA 8 hours: 0.1 mg/m³ (as Cu). Form: respirable fume. **Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Kopar]** TWA 8 hours: 1 mg/m³. Form: total dust and powder.
bisphenol A	**Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024)** TWA 8 hours: 2 mg/m³.

copper	**NAOSH (Ireland, 4/2024)** Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.2 mg/m³ (as Cu). Form: fume. OELV 8 hours: 1 mg/m³ (as Cu). Form: dusts and mists.
bisphenol A	**NAOSH (Ireland, 4/2024)** Repr 1B. Sensitiser. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 2 mg/m³. Form: Inhalable fraction.
Zinc stearate	**NAOSH (Ireland, 4/2024)** Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 10 mg/m³. Form: inhalable dust. OELV 15 minutes: 20 mg/m³. Form: inhalable dust. OELV 8 hours: 4 mg/m³. Form: respirable dust.
bisphenol A	**Legislative Decree No. 81/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (Italy, 9/2024)** Absorbed through skin. Limit value 8 hours: 2 mg/m³. Form: inhalable fraction.
copper	**Ministers Cabinet Regulations Nr.325 - AER (Latvia, 3/2024)** TWA 8 hours: 0.5 mg/m³. STEL 15 minutes: 1 mg/m³.
bisphenol A	**EU OEL (Europe, 1/2022)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
copper	**Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [varis ir jo neorganiniai junginiai]** TWA 8 hours: 0.2 mg/m³ (as Cu). Form: Respirable fraction. TWA 8 hours: 1 mg/m³ (as Cu). Form: Inhalable fraction.
bisphenol A	**Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)** Repr. Sensitiser. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
Zinc stearate	**Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024) [stearatai]** TWA 8 hours: 5 mg/m³.
bisphenol A	**Grand-Duchy Regulation 2016. Chemical agents. Annex I (Luxembourg, 3/2021)** TWA 8 hours: 2 mg/m³. Form: inhalable fraction.
bisphenol A	**EU OEL (Europe, 1/2022)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
copper	**Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024) [koper en anorganische koperverbindingen]** TWA 8 hours: 0.1 mg/m³. Form: Inhalable fraction.
bisphenol A	**Ministry of Social Affairs and Employment, Legal limit values (Netherlands, 5/2024)** Repr B3. TWA 8 hours: 2 mg/m³. Form: inhalable dust.
Organic dust	**FOR-2011-12-06-1358 (Norway)** TWA 8 hours: 5 mg/m³.
copper	**FOR-2011-12-06-1358 (Norway, 5/2024)** TWA 8 hours: 1 mg/m³. Form: Dust.
bisphenol A	**FOR-2011-12-06-1358 (Norway, 5/2024)** Repr. Sensitiser. TWA 8 hours: 2 mg/m³. Form: inhalable.
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/m³.
copper	**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) [copper and its inorganic compounds]** TWA 8 hours: 0.2 mg/m³ (calculated as Cu).
bisphenol A	**Regulation of the Minister of Family, Labor and Social Policy**

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	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/m³. Form: Inhalable fraction.
copper	**Portuguese Institute of Quality (Portugal, 11/2014) [cobre, fumos]** TWA 8 hours: 0.2 mg/m³ (expressed as Cu). Form: Fume. **Portuguese Institute of Quality (Portugal, 11/2014) [cobre, poeiras e névoas]** TWA 8 hours: 1 mg/m³ (expressed as Cu). Form: Dusts and mists.
bisphenol A	**Decree-Law 301/2000 - Occupational exposure limits for carcinogenic and mutagenic agents (Portugal, 12/2024)** TWA 8 hours: 2 mg/m³. Form: inhalable fration. **Decree-Law 24/2012 - Occupational exposure limits for chemical agents (Portugal, 6/2021)** TWA 8 hours: 2 mg/m³. Form: inhalable fraction.
Zinc stearate	**Portuguese Institute of Quality (Portugal, 11/2014) [estearatos]** A4. TWA 8 hours: 10 mg/m³.
copper	**HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)** VLA 8 hours: 0.5 mg/m³. Form: Dust. Short term 15 minutes: 1.5 mg/m³. Form: Dust.
bisphenol A	**HG 1218/2006, Annex 1, with subsequent modifications and additions (Romania, 3/2024)** R1B. VLA 8 hours: 2 mg/m³. Form: Inhalable fraction.
Zinc stearate	**HG 1218/2006, Annex 4, with subsequent modifications and additions (Romania, 3/2024)** VLA 8 hours: 10 mg/m³. Form: inhalable dust.
copper	**Government regulation SR c. 355/2006 (Slovakia, 6/2024) [meď a jej anorganické zlúčeniny]** Inhalation sensitiser. TWA 8 hours: 1 mg/m³ (Copper and its inorganic compounds, as Cu). Form: Inhalable fraction. TWA 8 hours: 0.2 mg/m³ (Copper and its inorganic compounds, as Cu). Form: respirable fraction and fumes.
bisphenol A	**EU OEL (Europe, 1/2022)** TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.
Zinc stearate	**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.
Zinc powder - zinc dust (stabilized)	**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.
bisphenol A	**Regulation on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work (Slovenia, 4/2024)** Repr Fer 1B. Peak 15 minutes: 2 mg/m³ 4 times per shift [time between two exposure events at this concentration must be at least 60 minutes]. Form: Inhalable fraction. TWA 8 hours: 2 mg/m³. Form: Inhalable fraction.

copper	**National institute of occupational safety and health (Spain, 1/2024)** TWA 8 hours: 0.01 mg/m³. Form: Respirable fraction.
bisphenol A	**National institute of occupational safety and health (Spain, 1/2024)** TR1B. Skin sensitiser. TWA 8 hours: 2 mg/m³.
Zinc stearate	**National institute of occupational safety and health (Spain, 1/2024) [estearatos (no incluye los estearatos de metales tóxicos)]** TWA 8 hours: 10 mg/m³.
Organic dust	**Work environment authority Regulation 2018:1 (Sweden)** TWA 8 hours: 5 mg/m³.
copper	**Work environment authority Regulation 2018:1 (Sweden, 11/2022) [copper and inorganic compounds]** TWA 8 hours: 0.01 mg/m³ (as Cu). Form: respirable fraction.
bisphenol A	**Work environment authority Regulation 2018:1 (Sweden, 11/2022)** Repr. TWA 8 hours: 2 mg/m³. Form: inhalable fraction.
Zinc stearate	**Work environment authority Regulation 2018:1 (Sweden, 11/2022) [stearates]** TWA 8 hours: 5 mg/m³. Form: Total dust.
copper	**SUVA (Switzerland, 1/2025) [Kupfer und seine anorganischen Verbindungen]** TWA 8 hours: 0.1 mg/m³ (As Cu calculated). Form: Inhalable fraction. STEL 15 minutes: 0.2 mg/m³ (As Cu calculated). Form: Inhalable fraction.
bisphenol A	**SUVA (Switzerland, 1/2025)** Repr 1B. Sensitiser. TWA 8 hours: 3 mg/m³. Form: Inhalable fraction.
Zinc stearate	**SUVA (Switzerland, 1/2025)** TWA 8 hours: 3 mg/m³. Form: Respirable fraction.
copper	**EH40/2005 WELs (United Kingdom (UK), 1/2020)** TWA 8 hours: 0.2 mg/m³ (as Cu). Form: Fume.
bisphenol A	**EH40/2005 WELs (United Kingdom (UK), 1/2020)** TWA 8 hours: 2 mg/m³.

Biological exposure indices

Product/ingredient name	Exposure indices
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
copper	**DFG BEI-values list (Germany, 7/2024) [Copper and its inorganic compounds]** BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.

bisphenol A	**DFG BEI-values list (Germany, 7/2024)** BGV: 80 mg/l, bisphenol A (after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift.
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	
No exposure indices known.	

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
copper	**DNEL - General population - Long term - Dermal** 137 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 137 mg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Dermal** 273 mg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Dermal** 273 mg/kg bw/day Effects: Systemic
bisphenol A	**DNEL - General population - Short term - Dermal** 24 µg/kg bw/day Effects: Systemic

	DNEL - General population - Long term - Dermal 24 µg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Oral** 53 µg/kg bw/day Effects: Systemic **DNEL - General population - Long term - Oral** 53 µg/kg bw/day Effects: Systemic **DNEL - Workers - Short term - Dermal** 66 µg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 66 µg/kg bw/day Effects: Systemic **DNEL - General population - Short term - Inhalation** 1 mg/m³ Effects: Local **DNEL - General population - Long term - Inhalation** 1 mg/m³ Effects: Local **DNEL - General population - Short term - Inhalation** 1 mg/m³ Effects: Systemic **DNEL - General population - Long term - Inhalation** 1 mg/m³ Effects: Systemic **DNEL - Workers - Short term - Inhalation** 2 mg/m³ Effects: Local **DNEL - Workers - Long term - Inhalation** 2 mg/m³ Effects: Local **DNEL - Workers - Short term - Inhalation** 2 mg/m³ Effects: Systemic **DNEL - Workers - Long term - Inhalation** 2 mg/m³ Effects: Systemic
2-methylimidazole	**DNEL - General population - Long term - Oral** 0.02 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Dermal** 0.04 mg/kg bw/day Effects: Systemic **DNEL - Workers - Long term - Inhalation** 0.3 mg/m³ Effects: Systemic

SECTION 8: Exposure controls/personal protection

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Recommendations : Wear gloves according to EN374 to protect against skin effects from powders.

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

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

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

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

Filter type: P 2

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Solid.

Colour : Various

Odour : Slight

Odour threshold : Not available.

SECTION 9: Physical and chemical properties

Melting point/freezing point : Not available.

Initial boiling point and boiling range :

Ingredient name	°C	°F	Method
bisphenol A	360	680	
copper	2595	4703	

Flammability : Not available.

Lower and upper explosion limit : Lower: Not applicable.
Upper: Not applicable.

Flash point : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

pH : Not available.

Viscosity : Not available.

Solubility(ies) :

Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : Not applicable.

Vapour pressure : Not available.

Relative density : Not available.

Density : 1.3 g/cm³

Vapour density : Not applicable.

Particle characteristics

Median particle size : 40 µm

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

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
bisphenol A	**Rat - Oral - LD50** 1200 mg/kg Toxic effects: Effects on Fertility - Female fertility index (e.g., number of females pregnant per number of sperm-positive females; number of females pregnant per number of females mated)

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
INFRALIT EP 8025-13	4153.3	N/A	N/A	N/A	N/A
copper	500	N/A	N/A	N/A	N/A
2-methylimidazole	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name	Result
bisphenol A	**Rabbit - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 500 mg **Rabbit - Skin - Mild irritant** Amount/concentration applied: 250 mg
Zinc powder - zinc dust (stabilized)	**Human - Skin - Mild irritant** Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug I

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
bisphenol A	**Rabbit - Eyes - Severe irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 250 ug

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)

Product/ingredient name	Result
bisphenol A	STOT SE 3, H335 (Respiratory tract irritation)

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 : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced foetal weight
increase in foetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
stomach pains
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

SECTION 11: Toxicological information

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility. May damage the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : May cause endocrine disruption.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result
copper	**Acute - LC50 - Marine water** Crustaceans - Scud Order - *Amphipoda* - Adult Size: 9 mm 0.072 µg/l [48 hours] Effect: Mortality **Chronic - NOEC - Marine water** Algae - Diatom - *Nitzschia closterium* - Exponential growth phase 2.5 µg/l [72 hours] Effect: Population **Acute - IC50 - Fresh water** Algae - Green algae - *Pseudokirchneriella subcapitata* - Exponential growth phase 13 µg/l [72 hours] Effect: Population **Chronic - NOEC - Fresh water** Fish - Nile tilapia - *Oreochromis niloticus* - Juvenile (Fledgling, Hatchling, Weanling) Weight: 8.3 g 0.8 µg/l [6 weeks] Effect: Biochemistry **Acute - LC50 - Marine water** Fish - Mudskipper - *Periophthalmus waltoni* - Adult 7.56 µg/l [96 hours] Effect: Mortality **Chronic - NOEC - Fresh water** Daphnia - Water flea - *Daphnia magna*

	2 µg/l [21 days] Effect: Mortality
bisphenol A	**Acute - EC50 - Marine water** Algae - Diatom - *Skeletonema costatum* 1000 µg/l [96 hours] Effect: Growth **Chronic - NOEC - Fresh water** Fish - Goldfish - *Carassius auratus* - Adult Age: 2 to 3 years 0.2 µg/l [90 days] Effect: Reproduction **Chronic - NOEC - Fresh water** Algae - Algae - *Chlorolobion braunii* - Exponential growth phase 2 mg/l [4 days] Effect: Population **Acute - LC50 - Marine water** Fish - Rivulus - *Rivulus marmoratus* - Embryo 3.5 mg/l [96 hours] Effect: Mortality **Chronic - NOEC - Marine water** Crustaceans - Harpacticoid copepod - *Tigriopus japonicus* - Nauplii Age: <24 hours 10 µg/l [21 days] Effect: Reproduction **Acute - LC50 - Marine water** Crustaceans - Brine shrimp - *Artemia sinica* Age: 15 days 50.4 µg/l [48 hours] Effect: Mortality
Zinc powder - zinc dust (stabilized)	**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

SECTION 12: Ecological information

	Acute - LC50 - Marine water Fish - Mudskipper - *Periophthalmus waltoni* - Adult 12.21 µg/l [96 hours] Effect: Mortality
2-methylimidazole	**Acute - LC50 - Fresh water** Fish - Fathead minnow - *Pimephales promelas* Age: 30 days; Size: 22.8 mm; Weight: 0.206 g 286000 µg/l [96 hours] Effect: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
bisphenol A	3.4	20 to 67	Low
2-methylimidazole	0.24	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
bisphenol A	3.2	1436.23
2-methylimidazole	1.2	14.3075

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
copper	No	No	No	No	No	No	No
bisphenol A	No	No	No	No	No	No	No
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
2-methylimidazole	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	B	T	vPvB	vP	vB
copper	No	No	No	No	No	No	No
bisphenol A	No	N/A	No	Yes	No	N/A	No
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
2-methylimidazole	N/A	N/A	N/A	Yes	N/A	N/A	N/A

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
copper	No	No	No	No	No	No	No
bisphenol A	No	No	No	No	No	No	No
Zinc powder - zinc dust (stabilized)	No	No	No	No	No	No	No
2-methylimidazole	No	No	No	No	No	No	No

SECTION 12: Ecological information

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] : May cause endocrine disruption.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : Avoid release to the environment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

European waste catalogue (EWC) : 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)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PAINT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PAINT)	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 (-)

SECTION 14: Transport information

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.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction	4,4'-isopropylidenediphenol	Recommended	9th recommendation	10/1/2019
	2-methylimidazole	Candidate	D(2020) 4578-DC	6/25/2020
Endocrine disrupting properties for human health	4,4'-isopropylidenediphenol	Recommended	9th recommendation	10/1/2019
Endocrine disrupting properties for environment	4,4'-isopropylidenediphenol	Recommended	9th recommendation	10/1/2019

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

Product/ingredient name	%	Designation [Usage]
INFRALIT EP 8025-13	≥90	30
bisphenol A	≤10	30 66
2-methylimidazole	<1	30

Labelling : Restricted to professional users.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : 3907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

Total percentage of synthetic polymer microparticles : 42.9%

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

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Industrial emissions (integrated pollution prevention and control) - Water : Listed

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
E1

National regulations

Austria

Limitation of the use of organic solvents : Permitted.

Belgium

Czech Republic

Denmark

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 post-treatments 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.

- 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 : Listed

Finland

France

Reinforced medical surveillance : Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable

Germany

Storage class (TRGS 510) : 6.1D

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
E1	1.3.1

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	79.6
5.2.2 [III]	Dusty inorganic substances	12
5.2.7.1.3	Reproductive toxic substances	6.2
5.2.10	Soil polluting substances	2.1

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

SECTION 15: Regulatory information

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
bisfenol A	-	-	Fertility 1B	-	-
2-methylimidazool	-	-	Fertility 2	Development 1B	-

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. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360FD	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H360F	May damage fertility.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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INFRALIT EP 8025-13 All variants

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.