

SAFETY DATA SHEET



INFRALIT PE 8431-21 - All variants

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

1.1 Product identifier

Product name : INFRALIT PE 8431-21 - 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]

Not classified.

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

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

2.2 Label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements :

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.

SECTION 2: Hazards identification

Other hazards which do not result in classification : May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

There are no 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.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : 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** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

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

SECTION 5: Firefighting measures

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

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

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific 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
 cobalt chromite blue green spinel	Regulation on Limit Values - Technical Guidance Values (Austria, 12/2024) [Cobalt und seine Verbindungen (Cobalt als Cobaltmetall, Cobaltoxid und Cobaltsulfid, Staub von Cobaltlegierungen), im übrigen.] Absorbed through skin , Inhalation sensitiser , Skin sensitiser. TWA 8 hours: 0.1 mg/m ³ (measured as Co). Form: Inhalable fraction. PEAK 15 minutes: 0.4 mg/m ³ (measured as Co), 4 times per shift. Form: Inhalable fraction. Regulation on Limit Values - Technical Guidance Values (Austria, 12/2024) [Cobalt und seine Verbindungen (Cobalt als Cobaltmetall, Cobaltoxid und Cobaltsulfid, Staub von Cobaltlegierungen). Herstellung von Cobaltpulver und Katalysatoren, Hartmetall- und Magnetherstellung.] Absorbed through skin , Inhalation sensitiser , Skin sensitiser. TWA 8 hours: 0.5 mg/m ³ (measured as Co). Form: Inhalable fraction. PEAK 15 minutes: 2 mg/m ³ (measured as Co), 4 times per shift. Form: Inhalable fraction. Regulation on Limit Values - MAC (Austria, 12/2024) [Cobalt und seine Verbindungen (Cobalt als Cobaltmetall, Cobaltoxid, Cobaltsulfid und Cobaltsulfat, Staub von Cobaltlegierungen)] Carc A2.
 cobalt chromite blue green spinel	Limit values (Belgium, 12/2023) [Chroom (metaal) en anorganische verbindingen (met uitzondering van Cr VI verbindingen)] TWA 8 hours: 0.5 mg/m ³ .
 cobalt chromite blue green spinel	Ministry of Labour and Social Policy and the Ministry of Health - Ordinance No 13/2003. (Bulgaria, 4/2024) [Cobalt and inorganic compounds] Limit value 8 hours: 0.1 mg/m ³ (as cobalt).
 cobalt chromite blue green spinel	Ordinance on the protection of workers from exposure to hazardous chemicals at work, exposure limit values (Annex I) (Croatia, 12/2023) [kobalt i spojevi] Skin sensitiser , Inhalation sensitiser. ELV 8 hours: 0.1 mg/m ³ (as Co).
No exposure limit value known.	
 cobalt chromite blue green spinel	Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [kobalt a jeho sloučeniny] Carc, Repr. Sensitiser. TWA 8 hours: 0.05 mg/m ³ (as Co). Form: aerosol, inhalable fraction.. STEL 15 minutes: 0.1 mg/m ³ (as Co). Form: aerosol, inhalable fraction.. Government regulation of Czech Republic PEL/NPK-P (Czech Republic, 12/2023) [chrom a nerozpustné sloučeniny chromu (II, III)] STEL 15 minutes: 1.5 mg/m ³ (as Cr). Form: aerosol, inhalable fraction.. TWA 8 hours: 0.5 mg/m ³ (as Cr). Form: aerosol, inhalable fraction. .

SECTION 8: Exposure controls/personal protection

Organic dust cobalt chromite blue green spinel	Working Environment Authority (Denmark) TWA 8 hours: 3 mg/m³. Working Environment Authority (Denmark, 12/2024) [uorganiske cobaltforbindelser] K. TWA 8 hours: 0.01 mg/m³ (calculated as Co). Occupational exposure limits, Regulation No. 293 (Estonia) TWA 8 hours: 5 mg/m³. Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [koobalt ja anorgaanilised ühendid] Sensitiser. TWA 8 hours: 0.05 mg/m³ (calculated as Co). Occupational exposure limits, Regulation No. 293 (Estonia, 4/2024) [kroom (metall) ja tema anorgaanilised ühendid, v.a kroomhape ja kromaadid] TWA 8 hours: 2 mg/m³ (calculated as Cr).
Organic dust cobalt chromite blue green spinel	Institute of Occupational Health, Ministry of Social Affairs (Finland) STEL 15 minutes: 10 mg/m³. TWA 8 hours: 5 mg/m³. Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Koboltti ja sen epäorgaaniset yhdisteet] TWA 8 hours: 0.02 mg/m³ (calculated as Co). Institute of Occupational Health, Ministry of Social Affairs (Finland, 10/2021) [Kromi ja sen (II, III)-yhdisteet] TWA 8 hours: 0.5 mg/m³ (calculated as Cr).
No exposure limit value known.	
Organic dust cobalt chromite blue green spinel	DFG MAC-values list (Germany) TWA 8 hours: 5 mg/m³. DFG MAC-values list (Germany, 7/2024) [Cobalt and cobalt compounds] Carc 2, Muta 3A. Absorbed through skin , Inhalation sensitiser , Skin sensitiser. DFG MAC-values list (Germany, 7/2024) [Chromium(III) compounds] Skin sensitiser.
cobalt chromite blue green spinel	Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [κοβαλτίου ενώσεις] TWA 8 hours: 0.1 mg/m³ (as Co). Presidential Decree 307/1986: Occupational exposure limit values (Greece, 8/2024) [χρωμίου (III) ενώσεις] TWA 8 hours: 0.5 mg/m³ (as Cr).
cobalt chromite blue green spinel	5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [KOBALT ÉS SZERVETLEN VEGYÜLETEI] Sensitiser. TWA 8 hours: 0.02 mg/m³ (as Co). 5/2020. (II. 6.) ITM Decree (Hungary, 1/2025) [egyéb szervetlen krómvegyületek [a króm (vi) vegyületek kivételével]] Sensitiser. TWA 8 hours: 0.5 mg/m³ (as Cr). PEAK 15 minutes: 2 mg/m³ (as Cr).
cobalt chromite blue green spinel	Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Kóbalt og ólífræn sambönd] Sensitiser. TWA 8 hours: 0.02 mg/m³ (as Co). Form: Dust and fumes. Ministry of Welfare, List of Exposure Limits (Iceland, 11/2024) [Króm og króm (króm II og III), sambönd] TWA 8 hours: 0.5 mg/m³ (as Cr). Form: powder.
cobalt chromite blue green spinel	NAOSH (Ireland, 4/2024) [cobalt & cobalt compounds] Carc 1B, Repr 1B. Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.02 mg/m³ (as Co). NAOSH (Ireland, 4/2024) [chromium (III) compounds] Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 2 mg/m³ (as Cr).
No exposure limit value known.	

SECTION 8: Exposure controls/personal protection

No exposure limit value known.

 cobalt chromite blue green spinel

No exposure limit value known.

No exposure limit value known.

No exposure limit value known.

 organic dust

cobalt chromite blue green spinel

 organic dust

cobalt chromite blue green spinel

 cobalt chromite blue green spinel

No exposure limit value known.

 cobalt chromite blue green spinel

No exposure limit value known.

 cobalt chromite blue green spinel

 organic dust

cobalt chromite blue green spinel

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)
[kobaltas ir jo neorganiniai junginiai] Carc, Muta. Sensitiser.
TWA 8 hours: 0.05 mg/m³ (as Co).

Lithuanian Hygiene Standard HN 23 (Lithuania, 1/2024)
[chromas, neorganinio chromo (II) junginiai ir neorganinio chromo (III) junginiai (netirpūs)]
TWA 8 hours: 2 mg/m³.

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

TWA 8 hours: 5 mg/m³.

FOR-2011-12-06-1358 (Norway, 5/2024) [uorganiske koboltforbindelser (unntatt Co(II))] Repr. Sensitiser.

TWA 8 hours: 0.02 mg/m³ (calculated as Co).

FOR-2011-12-06-1358 (Norway, 5/2024) [Krom og Cr^{2±} og Cr^{3±} forbindelser]

TWA 8 hours: 0.5 mg/m³ (calculated as Cr).

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.

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) [chromium, metal, Cr II compounds, Cr III compounds]

TWA 8 hours: 0.5 mg/m³ (calculated as Cr).

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) [cobalt and its inorganic compounds]

TWA 8 hours: 0.02 mg/m³ (calculated as Co).

Portuguese Institute of Quality (Portugal, 11/2014) [metal e compostos de cromo (III)] A4.

TWA 8 hours: 0.5 mg/m³ (expressed as Cr).

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

TWA 8 hours: 0.02 mg/m³ (expressed as Co).

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

TWA 8 hours: 0.02 mg/m³ (expressed as Co).

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

[kobalt a jeho zlúčeniny] Sensitiser , Inhalation sensitiser.

TWA 8 hours: 0.05 mg/m³ (Cobalt and its compounds, as Co).

National institute of occupational safety and health (Spain, 1/2024) [Compuestos de Cromo (VI)] C1. Sensitization potential.

TWA 8 hours: 0.005 mg/m³ (as Cr).

Work environment authority Regulation 2018:1 (Sweden)

TWA 8 hours: 5 mg/m³.

Work environment authority Regulation 2018:1 (Sweden, 11/2022) [cobalt and inorganic compounds] Carc. Absorbed through skin , Sensitiser.

TWA 8 hours: 0.02 mg/m³ (as Co). Form: inhalable fraction.

SECTION 8: Exposure controls/personal protection

 cobalt chromite blue green spinel No exposure limit value known.	SUVA (Switzerland, 1/2025) [Cobalt und seine Verbindungen] Carc 1B, Muta 2, Repr 1B. Absorbed through skin , Sensitiser. TWA 8 hours: 0.05 mg/m³ (calculated as Co). Form: inhalable dust and aerosol. SUVA (Switzerland, 1/2025) [Chrom (Metall und Chrom(III)-Verbindungen)] Sensitiser. TWA 8 hours: 0.5 mg/m³ (calculated as Cr). Form: Inhalable fraction.
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Biological exposure indices

Product/ingredient name	Exposure indices
 cobalt chromite blue green spinel 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.  cobalt chromite blue green spinel No exposure indices known.  cobalt chromite blue green spinel 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.	VGU BEI (Austria, 9/2020) [Cobalt oder seine Verbindungen] BEI Fitness: 10 µg/l, cobalt [in urine]. Sampling time: one year. Institute of Occupational Health, Ministry of Social Affairs (Finland, 9/2020) [Koboltti ja sen epäorgaaniset yhdisteet] BEI: 130 nmol/l, cobalt [in urine]. Sampling time: at the end of each work shift work step or a week or exposure period. DFG BEI-values list (Germany, 7/2024) [Chromium and its compounds] BEI: 0.6 µg/l, total chromium [in urine]. Sampling time: end of exposure or end of shift. DFG BEI-values list (Germany, 7/2024) [Cobalt and its compounds] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BGV: 35 µg/l, cobalt [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts. BEI: 1.5 µg/l, cobalt [in urine]. Sampling time: at the end of the shift, for long-term exposures after several previous shifts.

SECTION 8: Exposure controls/personal protection

No exposure indices known. cobalt chromite blue green spinel	Government regulation SR c. 355/2006 (Slovakia, 6/2024) [kobalt a jeho zlúčeniny] BLV: 38.45 nmol/mmol creatinine, as cobalt [in urine]. Sampling time: no limitation. BLV: 20.03 µg/g creatinine, as cobalt [in urine]. Sampling time: no limitation. BLV: 509.8 nmol/l, as cobalt [in urine]. Sampling time: no limitation. BLV: 30 µg/l, as cobalt [in urine]. Sampling time: no limitation.
No exposure indices known. cobalt chromite blue green spinel	National institute of occupational safety and health (Spain, 1/2024) [Cobalto y compuestos inorgánicos excepto óxidos] VLB: 1 µg/l, cobalt [in blood]. Sampling time: end of workweek. VLB: 15 µg/l, cobalt [in urine]. Sampling time: end of workweek.
No exposure indices known. cobalt chromite blue green spinel	SUVA (Switzerland, 1/2025) [Cobalt und seine Verbindungen] BEI: 30 µg/l, cobalt [in urine]. Sampling time: immediately after exposure or after working hours. BEI: 509 nmol/l, cobalt [in urine]. Sampling time: immediately after exposure or after working hours.
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

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.

SECTION 8: Exposure controls/personal protection

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.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- 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** :  6 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

SECTION 9: Physical and chemical properties

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

Not available.

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

N/A

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

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

Short term exposure

Potential immediate 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 : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.

SECTION 11: Toxicological information

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

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

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Not available.

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient

Not available.

Results of PMT and vPvM assessment

This mixture does not contain any substances that are assessed to be a PMT or a vPvM.

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]

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

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

12.6 Endocrine disrupting properties

Not available.

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

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

European waste catalogue (EWC) : 080201

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

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

None of the components are listed.

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

Labelling :

SECTION 15: Regulatory information

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : 3902 - Polymers of propylene or of other olefins., 3907 - Polyacetals, other polyethers and epoxide resins; polycarbonates, alkyd resins, polyallyl esters and other polyesters.

Total percentage of synthetic polymer microparticles : 63.9%

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

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not 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 not controlled under the Seveso Directive.

National regulations

Austria

Limitation of the use of organic solvents : Permitted.

Belgium

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

Ingredient name	Status
Cobalt et ses composés	Listed

Czech Republic

Denmark

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
Cobalt chromite blue green spinel	Listed	-

MAL-code : 1-1

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.

SECTION 15: Regulatory information

MAL-code: 1-1

Application: 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.

- Gas filter mask must be worn.

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

- Full mask with combined filter and arm protectors must be worn.

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.

- Air-supplied half mask and eye protection 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 half mask, eye protection, coveralls and hood must be worn.

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

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

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

*See Regulations.

- Restrictions on use** : Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.
- List of undesirable substances** : Not listed
- Carcinogenic waste** : Waste containers must be labeled: Contains a substance or substances regulated by Danish working environment legislation on cancer risks.

Finland

France

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

Germany

TRGS 905

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development
Cobalt-Verbindungen (in Form atembarer Stäube/ Aerosole), ausgenommen die in dieser Liste bzw. in Anhang VI Teil 3 der CLP-Verordnung namentlich aufgeführten Cobaltverbindungen, Cobalt-haltigen Spinellen und	K2	M1A	RF1A	RD1A

SECTION 15: Regulatory information

organischen Cobalt-Sikkativen

Storage class (TRGS 510) : 13

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : 1

Technical instruction on air quality control (TA Luft)

Number [Class]	Description	%
5.2.1	Total dust	94.8
5.2.2 [II]	Dusty inorganic substances	1.6
5.2.2 [III]	Dusty inorganic substances	3.2
5.2.5	Organic substances	0.25
5.2.5 [I]	Organic substances	0.031
5.2.7.1.3	Reproductive toxic substances	0.078

Italy

D.Lgs. 152/06 : Not determined.

Netherlands

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

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
1,2-benzeendicarbonzuur, di-C7-11-vertakte en lineaire alkylesters	-	-	Fertility 2	Development 1B	-

Water Discharge Policy (ABM) : A(3) Hazardous for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

Norway

Sweden

Switzerland

VOC content : Exempt.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

Not classified.

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Version : 4

INFRALIT PE 8431-21

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.

