



SAFETY DATA SHEET

Prepared by NIRAS A/S

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Revision date: 21th September 2016
Version: 7

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:** **LUXOVIT (0.5-16.0 mm)**
- REACH registration no.:** The product is covered by Annex V in the REACH Regulation and is therefore exempted from the obligation to register.
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:** As lightening filler in many different products.
E.g. in road marking materials/tarmac/concrete panels and as decoration stones.
- 1.3. Details of the supplier of the safety data sheet:** Luxol A/S, Tangrimme 19, Kløv Kær, 7700 Thisted, Denmark, tel. +45 97 99 51 66, fax +45 97 99 51 15, E-mail: luxol@luxol.dk
- 1.4. Emergency telephone number:** +45 97 99 51 66 (available during office hours).

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture:** The product shall not be classified as hazardous according to the classification and labelling rules for substances and mixtures.
- CLP- classification: Not classified.

| 2.2. Label elements: | | Hazard pictograms Signal word |
|----------------------------------|---|--|
| Contains: | - | |
| Hazard statements: | - | |
| Precautionary statements: | - | |
| Supplemental information: | Safety data sheet available on request. | |

- 2.3. Other hazards:** Dust may irritate eyes and airways.
This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures:**

Contains: Calcined flint.

| CAS no. EC no. | REACH reg.no. | % | Chemical name | CLP-classification | Note: |
|---|------------------|---------|--------------------------------|--------------------|-------|
| 14808-60-7 238-878-4 14464-46-1 238-455-4 15468-32-3 239-487-1 | - | < 0.1 % | Silica, respirable crystalline | STOT RE 1;H372 | - |

For full text of Hazard-statements: see section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures****Inhalation:** Seek fresh air. Seek medical advice if symptoms persist.**Skin:** Rinse with water. After washing apply a fat skin cream, if desired.**Eyes:** Rinse immediately and thoroughly with water. Open eyes wide. Remove any contact lenses. Seek medical advice if irritation persists.**Ingestion:** Rinse mouth and drink water.**Burns:** Not relevant.**Other information:** When obtaining medical advice, show the safety data sheet or label.**4.2. Most important symptoms and effects, both acute and delayed:** Dust may irritate eyes and airways.**4.3. Indication of any immediate medical attention and special treatment needed:** No special immediate treatment required.**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media:** The product is not combustible.
If involved in fire use extinguishing media appropriate to the surrounding conditions.**5.2. Special hazards arising from the substance or mixture:** None.**5.3. Advice for firefighters:** Coordinate with fire in surroundings. If there is a risk of exposure to vapour and fumes, wear a full-face positive-pressure self-contained breathing apparatus.**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures:** Do not breathe dust.
Use personal protection.**6.2. Environmental precautions:** Do not discharge into drains or water courses.**6.3. Methods and material for containment and cleaning up:** Collect spillage and avoid dust generation. Avoid dry sweeping.
Wetting spillage with fine water mists or vacuum cleaning are recommended.
Spillage can be reused.**6.4. Reference to other sections:** See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:** Avoid inhalation of dust.
Avoid dust in the eyes.
- 7.2. Conditions for safe storage, including any incompatibilities:** Keep dry.
- 7.3. Specific end use(s):** See section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters:****Occupational exposure limit value**

| Chemical name | CAS no. | Workplace exposure limits (WELs) | | Note |
|--|--|--|--|------|
| | | Long-term exposure limit (8-hour TWA reference period) | Short-term exposure limit (15-minute reference period) | |
| Silica, respirable crystalline | - | 0.1 mg/m ³ | - | - |
| Flint inhalable dust respirable dust | - | 10 mg/m ³ 4 mg/m ³ | - | - |
| Legal basis: | EH40/2005 Workplace exposure limits (third edition, published 2018). | | | |
| Note: | None. | | | |
| Monitoring procedures: | Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements. | | | |

8.2. Exposure controls

- Appropriate engineering controls:** Provide appropriate exhaust ventilation at places where airborne dust is generated.
- Personal protective equipment should be worn as indicated below. When the product is handled in closed systems, personal protective equipment is not required.

Personal protective equipment

- Respiratory protection:** Wear a half mask or full face mask with P2 filter if work is dusty.
- Hand protection:** Plastic or rubber gloves are recommended.
Wash hands before breaks, eating, toilet visits and after work. Use mild soap and water and apply skin cream after washing.
- Eye/face protection:** Wear tight fitting safety goggles if work is dusty.
- Skin protection:** Coverall providing protection against dust is recommended if work is dusty.
- Environmental exposure controls:** No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | | | |
|--|----------------|--|-------------------------------|
| Appearance: | Solid, white | Vapour pressure: | Not applicable |
| Odour: | None | Vapour density: | Not applicable |
| Odour threshold: | Not applicable | Relative density: | Approx. 2.5 g/cm ³ |
| pH: | Not applicable | Solubility(ies): | Insoluble in water |
| Melting point/freezing point: | > 1600 °C | Partition coefficient, n-octanol/water: | Not applicable |
| Initial boiling point and boiling range: | Not applicable | Auto-ignition temperature: | Not applicable |
| Flash point: | Not applicable | Decomposition temperature: | Not applicable |
| Evaporation rate: | Not applicable | Viscosity: | Not applicable |
| Flammability (solid, gas): | Not applicable | Explosive properties: | Non-explosive |
| Upper/lower flammability or explosive limits: | Not applicable | Oxidising properties: | Non-oxidizing |

9.2. Other information

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| Particle size: | 0.5-16.0 mm max. 0.2 % < 5 µm |
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SECTION 10: STABILITY AND REACTIVITY

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| 10.1. Reactivity: | Non-reactive. |
| 10.2. Chemical stability: | The product is stable. |
| 10.3. Possibility of hazardous reactions: | No risk of hazardous reactions. |
| 10.4. Conditions to avoid: | None known. |
| 10.5. Incompatible materials: | None known. |
| 10.6. Hazardous decomposition products: | None known. |

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

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| General: | The product's danger to health originates from a small amount of respirable dust (max. 0.2 % of the material is smaller than 5 micrometer). Respirable dust can be inhaled and deposited in the lungs. |
| Acute toxicity - oral: | Under normal circumstances this will not be relevant. If ingested the product may cause irritation. The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Acute toxicity - dermal: | The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Acute toxicity - inhalation: | The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation: | Dust may have a drying effect on the skin. The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation: | Dust in the eyes can cause mechanical irritation. The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation: | The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity: | The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Carcinogenicity: | The product does not have to be classified. Based on available data, the classification criteria are not met. |
| Reproductive toxicity: | The product does not have to be classified. Based on available data, the classification criteria are not met. |
| STOT-single exposure: | Dust particles may cause coughing and irritation of the airways. The product does not have to be classified. Based on available data, the classification criteria are not met. |
| STOT-repeated exposure: | Depending on the product's subsequent handling and use (e.g. grinding, drying), respirable dust containing crystalline silica may be generated. Prolonged or repeated inhalation of respirable dust may cause the lung disease silicosis. Principal symptoms of silicosis are cough and breathlessness. The product does not have to be classified, as it contains less than 0.1 % silica, respirable crystalline. Based on available data, the classification criteria are not met. |
| Aspiration hazard: | No hazard. |
| Other toxicological effects: | None known. |

SECTION 12: ECOLOGICAL INFORMATION

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| 12.1. Toxicity: | The product is not hazardous to the environment. It is in resemblance to components of the earth's crust. |
| 12.2. Persistence and degradability: | Not degradable. |
| 12.3. Bioaccumulative potential: | Does not bioaccumulate. |
| 12.4. Mobility in soil: | The product is not mobile in soil. |
| 12.5. Results of PBT and vPvB assessment: | This product does not contain any PBT or vPvB substances. |
| 12.6. Other adverse effects: | None known. |

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods:**

The product is not classified as hazardous waste.
Waste, residue etc. should be disposed of in accordance with national and local regulations.

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| EWC-code: 17 09 04 |
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SECTION 14: TRANSPORT INFORMATION

The product is not classified as dangerous goods.

ADR/RID

| 14.1. UN number | 14.2. UN proper shipping name | 14.3. Transport hazard class(es) | 14.4. Packing group | 14.5. Environmental hazards | Other information |
|-----------------|-------------------------------|----------------------------------|---------------------|-----------------------------|-------------------|
| - | - | - | - | - | - |

IMDG

| 14.1. UN number | 14.2. UN proper shipping name | 14.3. Transport hazard class(es) | 14.4. Packing group | 14.5. Environmental hazards | Other information |
|-----------------|-------------------------------|----------------------------------|---------------------|-----------------------------|-------------------|
| - | - | - | - | - | - |

ADN

| 14.1. UN number | 14.2. UN proper shipping name | 14.3. Transport hazard class(es) | 14.4. Packing group | 14.5. Environmental hazards | Other information |
|-----------------|-------------------------------|----------------------------------|---------------------|-----------------------------|-------------------|
| - | - | - | - | - | - |

IATA

| 14.1. UN number | 14.2. UN proper shipping name | 14.3. Transport hazard class(es) | 14.4. Packing group | 14.5. Environmental hazards | Other information |
|-----------------|-------------------------------|----------------------------------|---------------------|-----------------------------|-------------------|
| - | - | - | - | - | - |

14.6. Special precautions for user: None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: Not relevant.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: No special.

15.2. Chemical safety assessment: No chemical safety assessment has been carried out for this product.

SECTION 16: OTHER INFORMATION

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| Changes: | Issue 7: Changes in section 8, 11 and 16. |
| Abbreviations and acronyms: | PBT: Persistent, Bioaccumulative and Toxic. vPvB: very Persistent and very Bioaccumulative. CLP: CLP-Regulation (EC) No 1272/2008 (Classification, Labelling and Packaging). The CLP Regulation adopts the United Nations' Globally Harmonised System on the classification and labelling of chemicals (GHS) across all European Union countries. STOT RE: Specific target organ toxicity — repeated exposure. |
| H-statements: | H372 Causes damage to lungs through prolonged or repeated inhalation. |
| Training advice: | The user must be instructed in the proper work procedure and be familiar with the contents of this safety data sheet. |
| Further information: | <p>Luxovit consists of calcined flint, which has been produced by heating flint to about 1200 °C. During the calcination a partial conversion of micro-crystalline alpha-quartz to cristobalite and small amounts of tridymite is brought about. Analysis of the product shows, that it contains less than 0.1 % respirable quartz, cristobalite and tridymite in total.</p> <p>The safety data sheet is prepared from information provided by the supplier about physical/chemical properties and all ingredients in the product.</p> <p>The safety data sheet is prepared according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and later amendments.</p> |
| Person responsible for the Safety Data Sheet (e-mail): | Susanne Brandt Hansen (sbha@niras.dk) |
