1. IDENTIFICATION

**Product identifier**

**Product name:** LEVOCIT POWDER

**Batch No.:** ≥9100-3786

**Cat. No.:** 40200092, 40200093

**Container size:** 600 g, 3 kg

**Recommended use and restrictions on use**

**Application:** For embedding of materialographic specimens

**Uses advised against:** No specific uses advised against are identified. (*)

**Details of the supplier of the safety data sheet**

**Supplier:** Struers Ltd

7275 West Credit Avenue

Ontario L5N 5M9 Mississauga

Canada

Tel: +1 (905) 8148855

**Responsible for safety data sheet authoring:** Responsible for safety data sheet authoring: DHI

Any questions to the contents of this safety data sheet should be sent to:

struers@struers.dk

**Emergency telephone number**

Alberta & NWT:

Poison & Drug Information Service (PADIS): 1-800-332-1414

British Columbia:

Drug and Poison Information Centre (DPIC): 604-682-5050 / 1-800-567-8911

Ontario:

Poison Centre: 1-800-268-9017

Québec:

Poison Control Centre: 1-800-463-5060

Infotrac:

1-800-535-5053

Struers CAN:

+1 (905) 8148855

(Only during office hours)
2. HAZARDS IDENTIFICATION

Classification of the hazardous product

WHMIS 2015: Combustible Dusts — Category 1 (*)

Label elements

(*)

Warning
May form combustible dust concentrations in air.

Other hazards
Contains Dibenzoyl peroxide. May produce an allergic reaction. Fine particles may form explosive vapor/air mixtures. Dust may irritate the eyes and the respiratory system.

PBT/vPvB: No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures
The product contains: Polymerised methacrylic esters and fillers. Only classified substances above threshold limits are shown.

WHMIS 2015:

<table>
<thead>
<tr>
<th>%</th>
<th>CAS-No.</th>
<th>EC No.</th>
<th>REACH Reg. No.</th>
<th>Chemical name</th>
<th>Hazard classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>94-36-0</td>
<td>202-327-6</td>
<td></td>
<td>Dibenzoyl peroxide</td>
<td>Organic Peroxides Type B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irritation Category 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sensitizer Category 1B</td>
<td></td>
</tr>
</tbody>
</table>
4. FIRST-AID MEASURES

Description of first-aid measures

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and take along these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the hazardous product

Specific hazards: No information available.

Advice for fire-fighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:
Avoid inhalation of dust. Avoid contact with skin and eyes. For personal protection, see section 8.

For emergency responders:
For personal protection, see section 8. No specific recommendations.

**Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

**Methods and material for containment and cleaning up**

**Spill Cleanup Methods:**
Collect spillage with shovel, broom or the like. Dispose of collected dust according to agreement with local authorities.

**Reference to other items**

**References:**
For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

**Precautions for safe handling**

**Safe handling advice:**
Avoid inhalation of dust. Avoid contact with skin and eyes. Avoid spreading dust. Observe good chemical hygiene practices.

**Technical precautions:**
Local exhaust is recommended.

**Conditions for safe storage, including any incompatibilities**

**Technical measures for safe storage:**
No special precautions.

**Storage conditions:**
Store in closed original container at temperatures between 15°C and 25°C. Store in a dry place.

**Specific end-use(s)**

**Specific use(s):**
No information available.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Other provincial OEL's may apply.

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>As:</th>
<th>Exposure limits</th>
<th>Type</th>
<th>Notes</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0</td>
<td>Benzoyl peroxide</td>
<td></td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Quebec</td>
</tr>
<tr>
<td>94-36-0</td>
<td>Benzoyl peroxide</td>
<td></td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>3</td>
<td>Alberta</td>
</tr>
<tr>
<td>94-36-0</td>
<td>Benzoyl peroxide</td>
<td></td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium carbonate, total dust</td>
<td></td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Quebec</td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium carbonate, total dust</td>
<td></td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>471-34-1</td>
<td>Calcium carbonate, respirable</td>
<td></td>
<td>20 mg/m³</td>
<td>STEL</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Local exhaust is recommended.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation use suitable respirator. Use respiratory equipment with combination filter, type A2/P2.

Hand protection: Wear protective gloves. Butyl rubber gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Thickness: 0,3 mm Breakthrough time: 60 min (*)

Eye protection: Risk of contact: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of contact.

Hygiene measures: Wash contaminated clothing before reuse. When using do not eat, drink or smoke.

Environmental Exposure Controls: Not available.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Powder</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>White</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>251 °C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>Insoluble in water</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature (°C)</strong></td>
<td>400 °C</td>
</tr>
<tr>
<td><strong>Decomposition temperature (°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Fine particles may form explosive vapor/air mixtures.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Other data</strong></td>
<td>Volatile Organic Compound (VOC): 0 g/l (calculated)</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

**Reactivity**

Reactivity: No data available.

**Chemical stability**

Stability: Stable under normal temperature conditions.

**Possibility of hazardous reactions**

Hazardous Reactions: No data available.

**Conditions to avoid**

Conditions/materials to avoid: No information available.

**Incompatible materials**

Incompatible materials: No information available.

**Hazardous decomposition products**

Hazardous decomposition products: Methyl methacrylate. By heating and fire, irritating vapors/gases may be formed.

11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute Toxicity (Oral):**
Based on available data, the classification criteria are not met. Dibenzoyl peroxide: LD50 >5000 mg/kg (oral rat)

**Acute Toxicity (Dermal):**
Based on available data, the classification criteria are not met.

**Acute Toxicity (Inhalation):**
Based on available data, the classification criteria are not met.

**Skin Corrosion/Irritation:**
Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:**
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization:**
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity:**
Based on available data, the classification criteria are not met.

**Carcinogenicity:**
Based on available data, the classification criteria are not met. National Toxicology Program (NTP): No. IARC Cancer Review: Group 3 for Benzoyl peroxide.

**Reproductive Toxicity:**
Based on available data, the classification criteria are not met.

**STOT - Single exposure:**
Based on available data, the classification criteria are not met.

**STOT - Repeated exposure:**
Based on available data, the classification criteria are not met.

**Aspiration hazard:**
Based on available data, the classification criteria are not met.

**Inhalation:**
Dust may irritate throat and respiratory system and cause coughing.

**Skin contact:**
Prolonged contact may cause redness and irritation. Risk of sensitization or allergic reactions among sensitive individuals.

**Eye contact:**
Dust may cause irritation.

**Ingestion:**
No harmful effects expected in amounts likely to be ingested by accident.
12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity: The product is not expected to be hazardous to the environment.

Persistence and degradability
Degradability: The degradability of the product has not been stated.

Bioaccumulative potential
Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil
Mobility: No data available.

Results of PBT and vPvB assessment
PBT/vPvB: No information available.

Other adverse effects
Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
Contaminated packaging: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, TDG).

UN number
UN-No: -

UN proper shipping name
Proper Shipping Name: -

Transport hazard class(es)
Class: -

Packing group
PG: -

Environmental hazards
Marine pollutant: -
Environmentally Hazardous substance: -

Special precautions for user
Special precautions: None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Transport in bulk: Not relevant
15. REGULATORY INFORMATION

**Safety, health and environmental regulations specific to the product**

**Special provisions:**
- DSL: All chemicals included in the product are DSL listed or exempt.

**National regulation:**
- Hazardous Products Regulations, with amendments.
- Canadian Environmental Protection Act, Reporting for the Domestic Substances List (DSL), with amendments.
- Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments (2016).
- Quebec: Regulation respecting the quality of the work environment, with amendments (2013-12-13).
16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. The following sections contain revisions or new statements: 1, 2, 8.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

[Signature]

Abbreviations and acronyms used in the safety data sheet:
PBT = Persistent, Bioaccumulative and Toxic.
vPvB = very Persistent and very Bioaccumulative.

Additional information:
Classification according to WHMIS 2015:
Calculation method.

Wording of H-statements:
H241 Heating may cause a fire or explosion.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.