1. IDENTIFICATION

**Product identifier**

**Product name:** LEVOFAST

- Document No.: M0229
- Batch No.: ≥ 8370
- Cat. No.: 40100057, 40100058

**Container size:** 1 kg, 7,5 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 Formaldehyde. May produce an allergic reaction.
Fine particles may form explosive vapor/air mixtures. Dust may irritate the eyes and the respiratory system.
Prolonged skin contact may cause redness and irritation.

PBT/vPvB: No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: Phenolic resin.
### 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>50-&lt;75</td>
<td>65997-17-3</td>
<td>266-046-0</td>
<td></td>
<td>Glass, oxide, chemicals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;25</td>
<td>557-04-0</td>
<td>209-150-3</td>
<td></td>
<td>Magnesium distearate</td>
<td>Aquatic Chronic Toxicity Category 4</td>
<td></td>
</tr>
<tr>
<td>5-&lt;10</td>
<td>9004-34-6</td>
<td>232-674-9</td>
<td></td>
<td>Cellulose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;1.0</td>
<td>108-95-2</td>
<td>203-632-7</td>
<td>01-2119471329-32-xxxx</td>
<td>Phenol</td>
<td>Germ Cell Mutagenicity Category 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute (Inhalation) Toxicity Category 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute (Dermal) Toxicity Category 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute (Oral) Toxicity Category 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Category 2 Target organ toxicant, Repeated Exposure</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Corrosion Category 1B</td>
<td></td>
</tr>
<tr>
<td>0.02-</td>
<td>50-00-0</td>
<td>200-001-8</td>
<td>01-2119488953-20-xxxx</td>
<td>Formaldehyde</td>
<td>Carcinogenicity Category 1B</td>
<td>B; D</td>
</tr>
<tr>
<td>&lt;0.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Germ Cell Mutagenicity Category 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute (Inhalation) Toxicity Category 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Acute (Dermal) Toxicity Category 3</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Acute (Oral) Toxicity Category 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Corrosion Category 1B</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sensitizer Category 1</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 clothing immediately and wash skin with soap and water.

**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 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:
By heating and fire, toxic vapors/gases may be formed. Fine particles may form explosive vapor/air mixtures.

**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 inhalation of vapors and contact with skin and eyes. For personal protection, see section 8.

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

**Environmental precautions**

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. Wash hands before breaks and before smoking, eating or drinking. Observe good chemical hygiene practices.

Technical measures: Use work methods which minimize dust production.

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 tightly closed original container.

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>108-95-2</td>
<td>Phenol</td>
<td>-</td>
<td>5 ppm</td>
<td>19 mg/m3</td>
<td>TWA</td>
<td>Pc</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
<td>-</td>
<td>2 ppm</td>
<td>3 mg/m3</td>
<td>C</td>
<td>C2</td>
</tr>
<tr>
<td>9004-34-6</td>
<td>Cellulose (paper fibres), total dust</td>
<td>-</td>
<td>10 mg/m3</td>
<td>TWA</td>
<td>-</td>
<td>Quebec</td>
</tr>
<tr>
<td>-</td>
<td>Stearates, excludes stearates of toxic metals</td>
<td>-</td>
<td>10 mg/m3</td>
<td>TWA</td>
<td>3</td>
<td>Alberta</td>
</tr>
</tbody>
</table>

Notes:
Pc: SKIN (percutaneous).
C2: Carcinogenic effect suspected in humans.

Exposure controls

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

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

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

Hand protection:
Wear protective gloves. Nitrile 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.

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

Skin protection:
No special precautions.

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

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Granular.</td>
</tr>
<tr>
<td>Colour</td>
<td>Beige.</td>
</tr>
<tr>
<td>Odour</td>
<td>Almost odourless.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
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</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
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<tr>
<td>Solubility</td>
<td>Not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Other information

<table>
<thead>
<tr>
<th>Other data</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile Organic Compound (VOC)</td>
<td>&lt;10 g/l (calculated)</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

**Reactivity**
Reactivity: None under normal conditions.

**Chemical stability**
Stability: Stable under normal temperature conditions.

**Possibility of hazardous reactions**
Hazardous Reactions: None under normal conditions.

**Conditions to avoid**
Conditions/materials to avoid: Avoid dust close to ignition sources.

**Incompatible materials**
Incompatible materials: None specific

**Hazardous decomposition products**
Hazardous decomposition products: By heating and fire, toxic 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.

**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): Group K for Formaldehyde. IARC Cancer Review: Group 3 for Phenol. IARC Cancer Review: Group 1 for Formaldehyde.

**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.

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

**Ingestion:** May irritate and cause malaise.
12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Ecotoxicity: The environmental hazard of the product is considered to be limited.

**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: No information available.

13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**
Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Note that fully cured material is not considered as hazardous waste.

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 listed: All components are listed or exempted.

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.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

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

Classification according to WHMIS 2015:

vPvB = very Persistent and very Bioaccumulative.

Additional information: Calculation method.

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.