1. IDENTIFICATION

Product name: CITOFAST
Cat. No. 40100068, 40100069
Container size: 1; 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: 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 Methyl methacrylate, Dibenzoyl peroxide. May produce an allergic reaction. Fine particles may form explosive vapor/air mixtures. Inhalation of dust may irritate the respiratory system. Dust in the eyes will cause irritation. Prolonged skin contact may cause redness and irritation.

PBT/vPvB: No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: acrylic 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>50-70</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td>-</td>
<td>Aluminium powder (stabilised)</td>
<td>Mixtures Which, in Contact with Water, Emit Flammable Gases Category 2</td>
<td>T</td>
</tr>
<tr>
<td>&lt;10</td>
<td>7440-21-3</td>
<td>231-130-8</td>
<td>-</td>
<td>Silicon</td>
<td>Flammable Solid Category 2</td>
<td></td>
</tr>
<tr>
<td>&lt;5</td>
<td>7440-50-8</td>
<td>231-159-6</td>
<td>-</td>
<td>Copper</td>
<td>Aquatic Acute Toxicity Category 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>80-62-6</td>
<td>201-297-1</td>
<td>-</td>
<td>Methyl methacrylate</td>
<td>Flammable Liquids Category 2, Skin Irritation Category 2, Skin Sensitizer Category 1B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>94-36-0</td>
<td>202-327-6</td>
<td>-</td>
<td>Dibenzoyl peroxide</td>
<td>Organic Peroxides Type B, Eye Irritation Category 2, Skin Sensitizer Category 1B</td>
<td></td>
</tr>
</tbody>
</table>
4. FIRST-AID MEASURES

**Description of first-aid measures**

**Inhalation:**
Move into fresh air and keep at rest.

**Skin contact:**
Remove contaminated clothing immediately and wash skin with soap and water.
In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

**Eye contact:**
Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyes wide apart.

**Ingestion:**
Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with 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:**
Suitable extinguishing media: Powder.

**Unsuitable extinguishing media:**
Water. Foam.

**Specific hazards arising from the hazardous product**

**Specific hazards:**
Dust may form explosive mixture with air. In contact with water releases flammable gases.

**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 contact with skin and eyes. Avoid dust formation. For personal protection, see section 8.

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

**Environmental precautions**

**Environmental precautions:**
Avoid 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.
DO NOT use water if avoidable.

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

**Technical measures:** Avoid spreading dust.

**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>80-62-6</td>
<td>Methyl methacrylate (monomer)</td>
<td>-</td>
<td>100 ppm</td>
<td>410 mg/m³</td>
<td>TWA</td>
<td>S</td>
</tr>
<tr>
<td>80-62-6</td>
<td>Methyl methacrylate</td>
<td>-</td>
<td>50 ppm</td>
<td>205 mg/m³</td>
<td>TWA</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>100 ppm</td>
<td>410 mg/m³</td>
<td>STEL</td>
<td>15min</td>
</tr>
<tr>
<td>80-62-6</td>
<td>Methyl methacrylate</td>
<td>-</td>
<td>50 ppm</td>
<td>TWA</td>
<td>S</td>
<td>BC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>100 ppm</td>
<td>STEL</td>
<td>S;</td>
<td></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>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>7429-90-5</td>
<td>Aluminum, Metal, Dust</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>3</td>
<td>Alberta</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>Aluminum, metal</td>
<td>Al</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Quebec</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper, Dust and mist</td>
<td>Cu</td>
<td>1 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Alberta</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper, fume</td>
<td>Cu</td>
<td>0.2 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Alberta</td>
</tr>
<tr>
<td>7440-21-3</td>
<td>Silicon, respirable fraction</td>
<td>-</td>
<td>3 mg/m³</td>
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<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>7440-21-3</td>
<td>Silicon, total dust</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper, dusts and mists</td>
<td>Cu</td>
<td>1 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper, fume</td>
<td>Cu</td>
<td>0.2 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>BC</td>
</tr>
<tr>
<td>7440-21-3</td>
<td>Silicon, total dust</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
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<td>Quebec</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper, Dust and mist</td>
<td>Cu</td>
<td>1 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Quebec</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>Copper, fumes</td>
<td>Cu</td>
<td>0.2 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>Quebec</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 relevant standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: During dust-raising work: Use respiratory equipment with particle filter, type P2.

Hand protection: Risk of contact: Wear protective gloves. Laminate (PE/EVOH) 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

Appearance: Solid
Colour: Grey
Odour: Not available.
Odour threshold: Not available.
pH: Not available.
Melting point: Not available.
Boiling point: Not available.
Flash point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosion limits: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: 1.91
Solubility: insoluble in water
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.
Viscosity: Not available.
Explosive properties: Fine particles may form explosive vapor/air mixtures.
Oxidising properties: Not available.

Other information
Other data: Volatile Organic Compound (VOC): <10 g/l (calculated)
## 10. STABILITY AND REACTIVITY

**Reactivity**
- Reactivity: No data available.

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

**Possibility of hazardous reactions**
- Hazardous Reactions: In contact with water releases flammable gases.

**Conditions to avoid**
- Conditions/materials to avoid: Water, moisture.

**Incompatible materials**
- Incompatible materials: Oxidising materials. Avoid contact with acids and alkalis.

**Hazardous decomposition products**
- Hazardous decomposition products: 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.
- 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 Methyl methacrylate. 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.

**Eye contact:** Dust in the eyes will cause irritation.

**Ingestion:** May irritate and cause malaise.

**Specific effects:** The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals.
12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence and degradability

Degradability: The product is not biodegradable.

Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation: Is not expected to be bio-accumulable.

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.
SAFETY DATA SHEET

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: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

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: 2.
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.

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.