1. IDENTIFICATION

**Product identifier**

**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

**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:** The product is not classified.

**Label elements**

The substance/mixture does not meet the criteria for classification and labelling.

**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 Flammable Solid Category 1</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 Aquatic Chronic Toxicity Category 3</td>
<td></td>
</tr>
<tr>
<td>0.1-&lt;1</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 Specific Target Organ Toxicity Single Exposure Category 3</td>
<td></td>
</tr>
<tr>
<td>0.1-&lt;1</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

Protective equipment: Avoid contact with skin and eyes. Avoid dust formation. For personal protection, see section 8. (*)

Emergency procedures: 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>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>205 mg/m3</td>
<td>TWA</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>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>
<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>
<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>
<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>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.
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, 6, 9.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

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.