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

### 1.1. Product identifier

Product name: CLAROFAST  
Cat. No. 40100053, 40100054, 40100055

Container size: 1; 7.5; 25 kg

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: For embedding of materialographic specimens

Uses advised against: No specific uses advised against are identified.

### 1.3. Details of the supplier of the safety data sheet

Supplier: Struers ApS, Singapore Branch  
627A Aljunied Road  
#07-08 BizTech Centre  
389842 Singapore  
Tel: +65 6299 2268

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

### 1.4. Emergency telephone number

24-hour Emergency Medical Service (EMS): 995.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

GHS: The product is not classified.

### 2.2. Label elements

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

### 2.3. Other hazards

Contains Methyl methacrylate, Dibenzoyl peroxide. May produce an allergic reaction.  
Fine particles may form explosive vapour/air mixtures. May irritate eyes and skin. Inhalation of dust may irritate the respiratory system.

PBT/vPvB: Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: acrylic resin. (\*)

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GHS:

| %:     | CAS-No.:  | EC No.:   | REACH Reg. No: | Chemical name:       | Hazard classification:  | Notes: |
|--------|-----------|-----------|----------------|----------------------|---|--------|
| 60-100 | 9011-14-7 | -         | -              | Methacrylate polymer | -   |        |
| 0.1-<1 | 80-62-6   | 201-297-1 | -              | Methyl methacrylate  | Flammable liquid Cat 2<br>STOT single Cat 3<br>Skin corrosion/irritation Cat 2<br>Skin sensitizer Cat 1 | D      |
| 0.1-<1 | 94-36-0   | 202-327-6 | -              | Dibenzoyl peroxide   | Organic Peroxide Type B<br>Serious eye damage/eye irritation 2<br>Skin sensitizer Cat 1                 |        |

## SECTION 4: FIRST AID MEASURES

### 4.1. 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 bring 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 uncomfortable: Seek hospital and bring along these instructions.

### 4.2. Most important symptoms and effects, both acute and delayed

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

### 4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. 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.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards: In case of fire, toxic and irritating gases may be formed.

### 5.3. Advice for firefighters

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

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

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

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

### **6.2. Environmental precautions**

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Moisten spillage with water. Collect spillage with shovel, broom or the like.

### **6.4. Reference to other sections**

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

## SECTION 7: HANDLING AND STORAGE

### **7.1. 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.

### **7.2. Conditions for safe storage, including any incompatibilities**

Technical measures for safe storage: No special precautions.

Storage conditions: Store in tightly closed original container.

### **7.3. Specific end use(s)**

Specific use(s): No information available.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No occupational exposure limit assigned.

### 8.2. Exposure controls

|   |  |
|---|--|
| <u>Engineering measures:</u>            | The risk of inhalation of dust must be minimized as much as possible. Local exhaust is recommended.  |
| <u>Personal protection:</u>             | Personal protection equipment should be chosen according to the ANSI standards and in discussion with the supplier of the personal protective equipment.   |
| <u>Respiratory equipment:</u>           | In case of inadequate ventilation use suitable respirator. Use respiratory equipment with particle filter, type P3.  |
| <u>Hand protection:</u>                 | Risk of contact: Wear protective gloves. Nitrile gloves are recommended. The most suitable glove must be chosen in collaboration with the gloves supplier, who can inform about the breakthrough time of the glove material. |
| <u>Eye protection:</u>                  | Risk of contact: Wear goggles/face shield.   |
| <u>Skin protection:</u>                 | No special precautions.  |
| <u>Environmental Exposure Controls:</u> | Not available.   |

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Form: Solid.  
Colour: White.  
Odour: Characteristic.  
Odour threshold: Not available.  
pH: Not available.  
Melting point: 150-230°C / 302-446°F  
Boiling point: Not available.  
Flash point: Not available.  
Evaporation rate: Not available.  
Flammability (solid, gas): Not available.  
Explosion limits: Not available.  
Vapour pressure: Not applicable.  
Vapour density: Not applicable.  
Relative density: 1,18  
Solubility: insoluble in water  
Partition coefficient (n-octanol/water): Not applicable.  
Auto-ignition temperature (°C): Not available.  
Decomposition temperature (°C): Not available.  
Viscosity: Not available.  
Explosive properties: Fine particles may form explosive vapour/air mixtures.  
Oxidising properties: Not applicable.

### 9.2. Other information

Other data: Volatile Organic Compound (VOC): <10 g/l (calculated)

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: None under normal conditions.

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

### 10.4. Conditions to avoid

Conditions/materials to avoid: Heating. Avoid dust formation.

### 10.5. Incompatible materials

Incompatible materials: No data available.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: When heated and in case of fire, irritating vapours/gases may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. 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 sensitisation: 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.

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 sensitising substance which may provoke an allergic reaction among sensitive individuals.

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

Degradability: The product is not biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation: Is not expected to be bioaccumulable.

### 12.4. Mobility in soil

Mobility: No data available.

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB: This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

Other adverse effects: No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from residues: Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

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

### 14.1. UN number

UN-No: -

### 14.2. UN proper shipping name

Proper Shipping Name: -

### 14.3. Transport hazard class(es)

Class: -

### 14.4. Packing group

PG: -

### 14.5. Environmental hazards

Marine pollutant: -

Environmentally Hazardous -

Substance:

### 14.6. Special precautions for user

Special precautions: None known.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not relevant.

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## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulation: Singapore Standard SS 586: Part 2 : 2014; Globally harmonised system of classification and labelling of chemicals - Singapore's adaptations.  
Singapore Standard SS 586: Part 3 : 2014; Preparation of safety data sheets (SDS).  
Workplace Safety and Health (General Provisions) Regulations, with amendments.  
Guidelines on prevention and control of chemical hazard.

## SECTION 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: 3.

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.  
vPvB = very Persistent and very Bioaccumulative.

Additional information: Classification according to Singapore Standard SS 586: Part 2 : 2014:  
Calculation method.

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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.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.  
[www.dhigroup.com](http://www.dhigroup.com).