

Product name: CITOFAST  
Revision Date: 2018-11-21  
Document No.: M0192

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Print date: 2018-11-21  
SDS-ID: CA-EN/5.0

## 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.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: acrylic resin.

WHMIS 2015:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
50-70	7429-90-5	231-072-3	-	Aluminium powder (stabilised)	Mixtures Which, in Contact with Water, Emit Flammable Gases Category 2 Flammable Solid Category 1	T
<10	7440-21-3	231-130-8	-	Silicon	Flammable Solid Category 2	
<5	7440-50-8	231-159-6	-	Copper	Aquatic Acute Toxicity Category 1 Aquatic Chronic Toxicity Category 3	
0.1-<1	80-62-6	201-297-1	-	Methyl methacrylate	Flammable Liquids Category 2 Skin Irritation Category 2 Skin Sensitizer Category 1B Specific Target Organ Toxicity Single Exposure Category 3	
0.1-<1	94-36-0	202-327-6	-	Dibenzoyl peroxide	Organic Peroxides Type B Eye Irritation Category 2 Skin Sensitizer Category 1B	

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## 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.

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## 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Other provincial OEL's may apply.

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>		<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
80-62-6	Methyl methacrylate (monomer)	-	100 ppm	410 mg/m3	TWA	S	Quebec
80-62-6	Methyl methacrylate	-	50 ppm	205 mg/m3	TWA	-	Alberta
		-	100 ppm	410 mg/m3	STEL	15min	
80-62-6	Methyl methacrylate	-	50 ppm		TWA	S	BC
		-	100 ppm		STEL	S;	
94-36-0	Benzoyl peroxide	-		5 mg/m3	TWA	3	Alberta
94-36-0	Benzoyl peroxide	-		5 mg/m3	TWA	-	BC
94-36-0	Benzoyl peroxide	-		5 mg/m3	TWA	-	Quebec
7429-90-5	Aluminum, Metal, Dust	-		10 mg/m3	TWA	3	Alberta
7429-90-5	Aluminum, metal	Al		10 mg/m3	TWA	-	Quebec
7440-50-8	Copper, Dust and mist	Cu		1 mg/m3	TWA	-	Alberta
7440-50-8	Copper, fume	Cu		0.2 mg/m3	TWA	-	Alberta
7440-21-3	Silicon, respirable fraction	-		3 mg/m3	TWA	-	BC
7440-21-3	Silicon, total dust	-		10 mg/m3	TWA	-	BC
7440-50-8	Copper, dusts and mists	Cu		1 mg/m3	TWA	-	BC
7440-50-8	Copper, fume	Cu		0.2 mg/m3	TWA	-	BC
7440-21-3	Silicon, total dust	-		10 mg/m3	TWA	-	Quebec
7440-50-8	Copper, Dust and mist	Cu		1 mg/m3	TWA	-	Quebec
7440-50-8	Copper, fumes	Cu		0.2 mg/m3	TWA	-	Quebec

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

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<u>Appearance:</u>	Solid
<u>Colour:</u>	Grey
<u>Odour:</u>	Not available.
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	Not available.
<u>Melting point:</u>	Not available.
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	Not available.
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosion limits:</u>	Not available.
<u>Vapour pressure:</u>	Not available.
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	1.91
<u>Solubility:</u>	insoluble in water
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	Not available.
<u>Explosive properties:</u>	Fine particles may form explosive vapor/air mixtures.
<u>Oxidising properties:</u>	Not available.
<b><u>Other information</u></b>	
<u>Other data:</u>	Volatile Organic Compound (VOC): <10 g/l (calculated)

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## 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.

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## 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.

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## 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.  
U.S. Department of health and human services: 2011 - Report on Carcinogens - 12th Edition.  
International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.  
British Columbia: Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, with amendments (2015).  
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).  
Alberta: Occupational Health and Safety Code 2009.

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## 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.



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<u>Additional information:</u>	Classification according to WHMIS 2015:
	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. 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.  
[www.dhigroup.com](http://www.dhigroup.com).

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