

# SAFETY DATA SHEET



Product name: VERSOCIT-2 POWDER Page: 1/10  
Revision Date: 2020-05-15 Print date: 2020-05-15  
Document No.: M0175 SDS-ID: US-EN/12.0

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

### Product identifier

Product name: VERSOCIT-2 POWDER  
Batch No. ≥0159-5466 (\*)  
Cat. No. 40200090, 40200089

Container size: 750 g, 3 kg

### 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. (\*)

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

Supplier: Struers ApS  
Pederstrupvej 84  
DK-2750 Ballerup  
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI  
Any questions to the contents of this material safety data sheet should be sent to: struers@struers.dk

### Emergency telephone number

National Capital Poison Center: 1-800-222-1222

Infotrac:  
1-800-535-5053  
Struers US:  
1-440-871-0071

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

OSHA 2012: Combustible Dust (\*)

### Label elements

(\*)

Warning  
May form combustible dust concentrations in air.

### Other hazards

Contains Dibenzoyl peroxide and Methyl methacrylate. May produce an allergic reaction. Fine particles may form explosive vapor/air mixtures. Dust may irritate the eyes and the respiratory system. (\*)

PBT/vPvB: No information available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: polymer. (\*)

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## OSHA 2012:

<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>
60-100	-	-	-	Methacrylate polymer	-	
<1	94-36-0	202-327-6	-	Dibenzoyl peroxide	Organic Peroxide Type B Eye irritant Category 2A Skin Sensitizer Category 1B	
<1	80-62-6	201-297-1	-	Methyl methacrylate	Flammable Liquid Category 2 Skin Irritant Category 2 Skin Sensitizer Category 1B Category 3 Target organ toxicant, Single Exposure (respiratory tract irritation)	

## SECTION 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 bring these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

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.

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## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant 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. (\*)

### Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, harmful vapors/gases may be formed.

### Advice for firefighters

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 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: 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: Dampen spillage with water. Collect spillage with shovel, broom or the like.

### Reference to other sections

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

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Safe handling advice: Avoid inhalation of dust and contact with skin and eyes. Avoid spreading dust. Observe good chemical hygiene practices.

Technical measures: Work practice should minimize contact.

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 closed original container at temperatures between 15°C and 25°C. Store in a dry place. (\*)

### Specific end use(s)

Specific use(s): No information available.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

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	-	100 ppm	410 mg/m3	TWA	-	OSHA
94-36-0	Benzoyl peroxide	-		5 mg/m3	TWA	-	OSHA
-	Particulates not otherwise regulated (PNOR), total dust	-		15 mg/m3	TWA	-	OSHA
-	Particulates not otherwise regulated (PNOR), respirable fraction	-		5 mg/m3	TWA	-	OSHA
94-36-0	Benzoyl peroxide	-		5 mg/m3	TWA	A4	ACGIH
80-62-6	Methyl methacrylate	-	50 ppm		TWA	DSEN; A4	ACGIH
		-	100 ppm		STEL	DSEN; A4; 15min	
-	Particles (Insoluble or Poorly Soluble), not Otherwise Specified, respirable particles	-		3 mg/m3	TWA	-	ACGIH
-	Particles (Insoluble or Poorly Soluble), not Otherwise Specified, inhalable particles	-		10 mg/m3	TWA	-	ACGIH

Notes: DSEN: Dermal Sensitization.  
A4: Not Classifiable as a Human Carcinogen.

### Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation. Provide easy access to water supply and eye wash facilities.

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

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

Hand protection: Wear protective gloves. Butyl rubber 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.  
Thickness: 0,3 mm  
Breakthrough time: 60 min (\*)

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

Skin protection: Wear apron or protective clothing in case of contact.

Environmental Exposure Controls: Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

(\*)

<u>Form:</u>	Powder.
<u>Odor:</u>	Odorless.
<u>Odor threshold:</u>	Not available.
<u>pH:</u>	Not applicable.
<u>Melting point:</u>	230°F
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	>482°F
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosion limits:</u>	Not available.
<u>Vapor pressure:</u>	Not applicable.
<u>Vapor density:</u>	Not applicable.
<u>Relative density:</u>	1.16
<u>Solubility:</u>	insoluble in water
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°F):</u>	Not applicable.
<u>Decomposition temperature (°F):</u>	Not available.
<u>Viscosity:</u>	Not available.
<u>Explosive properties:</u>	Fine particles may form explosive vapor/air mixtures.
<u>Oxidizing properties:</u>	Not available.
<b><u>Other information</u></b>	
<u>Other data:</u>	Volatile Organic Compound (VOC): 25 g/l (calculated)

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## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

Reactivity: No data available.

### Chemical stability

Stability: Stable under normal temperature conditions.

### Possibility of hazardous reactions

Hazardous Reactions: No data available.

### Conditions to avoid

Conditions/materials to avoid: Heating.

### Incompatible materials

Incompatible materials: No information available.

### Hazardous decomposition products

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

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met. Dibenzoyl peroxide LD50: >5000 mg/kg (oral rat) (\*)

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.  
OSHA: No.

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. Risk of sensitization or allergic reactions among sensitive individuals. (\*)

Eye contact: Dust may cause irritation.

Ingestion: No harmful effects expected in amounts likely to be ingested by accident. (\*)

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecotoxicity: The product is not expected to be hazardous to the environment.

### 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: None known.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

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

RCRA: Waste number U162 (Methyl methacrylate)

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, DOT).

### 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.

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## SECTION 15: REGULATORY INFORMATION

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

Special provisions: State and local regulation may apply.

TSCA: Listed.

NFPA Rating: Health:1 Fire:1 Reactivity:0 Other:- (\*)

SARA Section 302: No.

SARA Section 304: Yes.

SARA Section 313: Yes.

SARA (311/312) Hazard categories: No. (\*)

CAA: Yes. (Methyl methacrylate)

National regulation:

The following lists have been checked:

Threshold Limit Values (2020), ACGIH, by the American Conference on Governmental Industrial Hygienists.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Hazard Communication, with amendments.

The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants (OSHA), with amendments.

NIOSH Pocket Guide to Chemical Hazards.

The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.

The Code of Federal Regulation. Title 40, part 372.65. Toxic Chemical Release Reporting: Community Right to Know.

The Code of Federal Regulation. Title 40, part 355.50. Emergency Planning and Notification.

The Code of Federal Regulation. Title 40, part 302.4. Designation, Reportable Quantities, and Notification.

The Code of Federal Regulation. Title 40, part 68.130. Chemical Accident Prevention Provisions.

U.S. Department of health and human services: 2016 - Report on Carcinogens - 14th Edition.

International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

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## 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: 1, 2, 3, 5, 6, 7, 8, 9, 11, 15.

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

Approved by DHI.

Allan Vorup

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 HCS 2012:  
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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