

SAFETY DATA SHEET



Product name: MULTIFAST
Revision Date: 2016-12-20
Document No.: M0195

Page: 1/11
Print date: 2016-12-20
SDS-ID: CA-EN/3.0

1. IDENTIFICATION

Product identifier

Product name: MULTIFAST
Cat. No. 40100027, 40100028, 40100029, 40100063
Container size: 2,5 kg, 7,5 kg, 25 kg, 75 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

Emergency telephone: Infotrac:
1-800-535-5053
Struers CAN:
+1 (905) 8148855
(Only during office hours)

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2. HAZARDS IDENTIFICATION

Classification of the hazardous product

WHMIS 2015: Skin Sensitizer — Category 1

Label elements



Warning

Contains:

H317 May cause an allergic skin reaction.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local regulations.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P272 Contaminated work clothing should not be allowed out of the workplace.

Other hazards

PBT/vPvB: Not relevant

Other: Fine particles may form explosive vapor/air mixtures. Inhalation of dust may irritate the respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: pigments, resin and fillers.

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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>
1<-10	100-97-0	202-905-8	01-2119474895-20-xxxx	Methenamine	Flammable Solid Category 2 Skin Sensitizer Category 1	
1-2	1333-86-4	215-609-9	-	Carbon black	-	
0,1-<1,0	108-95-2	203-632-7	01-2119471329-32-xxxx	Phenol	Germ Cell Mutagenicity Category 2 Acute (Inhalation) Toxicity Category 3 Acute (Dermal) Toxicity Category 3 Acute (Oral) Toxicity Category 3 Specific Target Organ Toxicity Repeated Exposure Category 2 Skin Corrosion Category 1B	
0,01-<0,1	50-00-0	200-001-8	01-2119488953-20-xxxx	Formaldehyde	Carcinogenicity Category 1B Germ Cell Mutagenicity Category 2 Acute (Inhalation) Toxicity Category 3 Acute (Dermal) Toxicity Category 3 Acute (Oral) Toxicity Category 3 Skin Corrosion Category 1B Skin Sensitizer Category 1	B; D

References: The full text for all hazard statements is displayed in section 16.

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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 take along these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring 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: Not known.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the hazardous product

Specific hazards: By heating and fire, toxic vapors/gases may be formed.

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

Personal precautions: Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes. Avoid inhalation of dust and vapors.

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 and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

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

Technical measures: Work practice should minimize contact. Use work methods which minimize dust production.

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): Not relevant

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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>
50-00-0	Formaldehyde	-	0.75 ppm	0.9 mg/m3	TWA	A2	Alberta
		-	1 ppm	1.3 mg/m3	C	A2	
50-00-0	Formaldehyde	-	0.3 ppm		TWA	A2; 1; S	BC
		-	1 ppm		C	A2; 1; S	
50-00-0	Formaldehyde	-	1 ppm		STEL	Ont; 15min	Ontario
		-	1.5 ppm		C	Ont	
50-00-0	Formaldehyde	-	2 ppm	3 mg/m3	C	C2	Quebec
100-97-0	Hexamethylenetetramine	-	0.35 ppm	2 mg/m3	STEL	Ont; 15min	Ontario
108-95-2	Phenol	-	5 ppm	19 mg/m3	TWA	Pc	Quebec
108-95-2	Phenol	-	5 ppm	19 mg/m3	TWA	1	Alberta
108-95-2	Phenol	-	5 ppm		TWA	Skin	BC

Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation. 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: In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with combination filter, type A2/P2.

Hand protection: Wear protective gloves. Nitrile 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: Wear apron or protective clothing in case of contact.

Hygiene measures: Wash hands after handling.

Environmental Exposure Controls: Not available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Solid Powder.

Colour: Black

Odour: Phenolic.

pH: Not available.

Boiling point: Not available.

Flash point: > 95.0 °C

Explosion limits: Not available.

Relative density: Not available.

Solubility: Slightly soluble in water.

Other information

Other data: Volatile Organic Compound (VOC): < 20 g/l (calculated)

10. STABILITY AND REACTIVITY

Reactivity

Reactivity: None known.

Chemical stability

Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions

Hazardous Reactions: None known.

Conditions to avoid

Conditions/materials to avoid: Avoid contact with acids and oxidising substances. Avoid dust close to ignition sources.

Incompatible materials

Incompatible materials: None known.

Hazardous decomposition products

Hazardous decomposition products: By heating and fire, toxic vapors/gases may be formed.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

<u>Acute Toxicity (Oral):</u>	Based on available data, the classification criteria are not met.
<u>Acute Toxicity (Dermal):</u>	Based on available data, the classification criteria are not met.
<u>Acute Toxicity (Inhalation):</u>	Based on available data, the classification criteria are not met.
<u>Skin Corrosion/Irritation:</u>	Based on available data, the classification criteria are not met.
<u>Serious eye damage/irritation:</u>	Based on available data, the classification criteria are not met.
<u>Respiratory or skin sensitization:</u>	May cause an allergic skin reaction.
<u>Germ cell mutagenicity:</u>	Based on available data, the classification criteria are not met.
<u>Carcinogenicity:</u>	Based on available data, the classification criteria are not met.
<u>Reproductive Toxicity:</u>	Based on available data, the classification criteria are not met.
<u>STOT - Single exposure:</u>	Based on available data, the classification criteria are not met.
<u>STOT - Repeated exposure:</u>	Based on available data, the classification criteria are not met.
<u>Aspiration hazard:</u>	Based on available data, the classification criteria are not met.
<u>Inhalation:</u>	Dust may irritate throat and respiratory system and cause coughing. Vapors liberated during curing of the product may in high concentrations irritate the throat and respiratory system and cause coughing.
<u>Skin contact:</u>	Phenol can be absorbed through the skin and cause chronic poisoning.
<u>Ingestion:</u>	No harmful effects expected in amounts likely to be ingested by accident.
<u>Specific effects:</u>	Carcinogenicity: IARC Cancer Review: Group 3 for Phenol. IARC Cancer Review: Group 2B for Carbon black. IARC Cancer Review: Group 3 for Formaldehyde. National Toxicology Program (NTP): Yes (Formaldehyde)

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence and degradability

Degradability: There are no data on the degradability of this product.

Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT/vPvB: Not relevant

Other adverse effects

Other adverse effects: None known.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Waste is classified as hazardous waste. 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

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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 listed: Not available.

National regulation:

Hazardous Products Regulations.

Canadian Environmental Protection Act, Reporting for the Domestic Substances List (DSL), with amendments.

Department of Justice. Canadian Environmental Protection Act 1999 (CEPA), 1999, c. 33, with amendments.

British Columbia: Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, with amendments.

Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments.

Quebec: Regulation respecting the quality of the work environment (R.R.Q. 1981, S-2.1, r.15), with amendments.

Alberta Regulation 393/88 Occupational Health and Safety Act, Chemical Hazards Regulation, with amendments.

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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: -

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

Approved by DHI.

Allan Vorup

Additional information:

Classification according to WHMIS 2015:
Calculation method.

Wording of R-phrases/H-statements:

H228	Flammable solid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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, Artens Allé 5, DK-2970 Hørsholm, Denmark.
www.dhigroup.com.