SECTION 1. IDENTIFICATION

1.1. Product identifier

Product name: MULTIFAST BLACK
Cat. No. 40100064, 40100065, 40100066, 40100067

Container size: 2,5 kg, 7,5 kg, 25 kg, 75 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

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

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

National Poison Management and Control Center: +63 2 8524 1078

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

DAO 2015-09: Based on available data the classification criteria are not met.

2.2. Label elements

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

2.3. Other hazards

Fine particles may form explosive vapour/air mixtures. Inhalation of dust may irritate the respiratory system. Prolonged skin contact may cause redness and irritation. Dust in the eyes will cause irritation.

PBT/vPvB: No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: resin.
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.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and 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.

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. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: No specific precautions.

5.2. Specific hazards arising from the chemical
Specific hazards: When heated and in case of fire, toxic vapours/gases may be formed.

5.3. Special protective actions for firefighters
Protective equipment for firefighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: Avoid contact with skin and eyes. Avoid inhalation of dust and vapours. For personal protection, see section 8.

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

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: 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.

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

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

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.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>Exposure limits</th>
<th>Type</th>
<th>Notes</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>Phenol</td>
<td>5 ppm</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>Skin</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
<td>5 ppm</td>
<td>6 mg/m³</td>
<td>CLV</td>
<td>-</td>
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<tr>
<td></td>
<td>Inert or Nuisance particulates</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Respirable fraction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inert or Nuisance particulates</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total dust</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. 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 the 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: 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. Breakthrough time: 480 min Thickness: 0.4 mm

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.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form: Powder.
Colour: Black.
Odour: Phenolic.
Odour threshold: Not available.
P H: Not available.
Melting point: Not available.
Boiling point: Not available.
Flash point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosive limits: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: Not available.
Solubility: insoluble in water
Partition coefficient (n-octanol/water): Not available.
Auto-ignition: Not available.
Decomposition: Not available.
Viscosity: Not available.
Explosive properties: Not available.
Oxidising properties: Not available.

9.2. Other information

Other data: Volatile Organic Compound (VOC): < 10 g/l (calculated)
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: None under normal conditions.

10.4. Conditions to avoid
Conditions/materials to avoid: Avoid dust close to ignition sources.

10.5. Incompatible materials
Incompatible materials: Avoid contact with acids and oxidising substances.

10.6. Hazardous decomposition products
Hazardous decomposition products: When heated and in case of fire, toxic 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: Test has determined that the product is not sensitising by skin contact.
Buehler test: Not Sensitising.
Guinea pig maximization test (GPMT): Not Sensitising.
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. Vapours liberated during curing of the product may in high concentrations irritate the throat and respiratory system and cause coughing.
Skin contact: Prolonged contact may cause redness and irritation. Phenol can be absorbed through the skin and cause chronic poisoning.
Eye contact: Dust in the eyes will cause irritation.
Ingestion: No harmful effects expected in amounts likely to be ingested by accident.
Specific effects: Contains a small amount of a substance/group of substances with possible risks of irreversible effects.
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: There are no data on the degradability of this product.

12.3. Bioaccumulative potential
Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil
Mobility: No data available.

12.5. Results of PBT and vPvB assessment
PBT/vPvB: No information available.

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. Note that fully cured material is not considered as hazardous waste.
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, ICAO/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.
SECTION 15: REGULATORY INFORMATION

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

National regulation: DENR Department Administrative Order 2015-09. Rules and Procedures for the Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) in Preparation of Safety Data Sheet (SDS) and Labelling Requirements of Toxic Chemical Substances''.

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: -
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 DAO 2015-09:
On basis of test data.

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.