1. IDENTIFICATION

Product identifier

Product name: MULTIFAST GREEN AND RED
Cat. No. 40100030, 40100031, 40100060, 40100061, 40100062
Container size: 2.5 kg, 7.5 kg, 25 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)

2. HAZARDS IDENTIFICATION

Classification of the hazardous product

WHMIS 2015:
Skin Corrosion — Category 1B
Serious Eye Damage — Category 1
Skin Sensitizer — Category 1
Germ Cell Mutagenicity — Category 2
Specific Target Organ Toxicity — Repeated Exposure — Category 2
Danger

Contains:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.

P280 Wear protective clothing, gloves, eye and face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P362 + P364 Take off contaminated clothing and wash it 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.
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe gas, fume, vapours or spray.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P405 Store locked up.

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

PBT/vPvB: Not relevant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures
The product contains: pigments, resin and fillers.

WHMIS 2015:

<table>
<thead>
<tr>
<th>%</th>
<th>CAS-No.</th>
<th>EC No.</th>
<th>REACH Reg. No.</th>
<th>Chemical name</th>
<th>Hazard classification</th>
<th>Notes</th>
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<td>2-15</td>
<td>100-97-0</td>
<td>202-905-8</td>
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<td>215-137-3</td>
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<td>Specific Target Organ</td>
<td>Toxicity Repeated</td>
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<td></td>
<td></td>
<td>Exposure Category 2</td>
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<td></td>
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<td>&lt;0.1</td>
<td>50-00-0</td>
<td>200-001-8</td>
<td>-</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Carcinogenicity Category 1</td>
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</tr>
</tbody>
</table>

References: The full text for all hazard statements is displayed in section 16.
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. 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 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:** No specific precautions.

**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.

**References to other items**

**References:** For personal protection, see section 8. For waste disposal, see section 13.
7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling advice: Avoid inhalation of dust and contact with skin and eyes. 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
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Other provincial OEL's may apply.

Occupational exposure limits:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>As:</th>
<th>Exposure limits</th>
<th>Type</th>
<th>Notes</th>
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<td>50-00-0</td>
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<td></td>
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<td>-</td>
<td>1 ppm</td>
<td>1.3 mg/m3</td>
<td>C</td>
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<td>50-00-0</td>
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<td>0.3 ppm</td>
<td></td>
<td>TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>1 ppm</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>50-00-0</td>
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<td>Ont; 15min</td>
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<td>100-97-0</td>
<td>Hexamethylenetetramine</td>
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<td>Phenol</td>
<td>-</td>
<td>5 ppm</td>
<td>19 mg/m3</td>
<td>TWA</td>
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<tr>
<td>108-95-2</td>
<td>Phenol</td>
<td>-</td>
<td>5 ppm</td>
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<td>108-95-2</td>
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<td>TWA</td>
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<td>-</td>
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<td>1305-62-0</td>
<td>Calcium hydroxide</td>
<td>-</td>
<td>5 mg/m3</td>
<td>TWA</td>
<td>-</td>
</tr>
</tbody>
</table>

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: 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.
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Solid Granular.
Colour: Green. Red.
Odour: Phenolic.
pH: Not available.
Boiling point: Not available.
Flash point: Not available.
Explosion limits: Not available.
Relative density: Not available.
Solubility: insoluble in water

Other information

Other data: Volatile Organic Compound (VOC): < 35 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.
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:** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:** Causes serious eye damage.
- **Respiratory or skin sensitization:** May cause an allergic skin reaction.
- **Germ cell mutagenicity:** Suspected of causing genetic defects.
- **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:** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.
- **Inhalation:** 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.
- **Skin contact:** Phenol can be absorbed through the skin and cause chronic poisoning.
- **Ingestion:** Corrosive. Even small amounts may cause serious damage.
- **Specific effects:**
  - **Carcinogenicity:**
    - IARC Cancer Review: Group 3 for Phenol.
    - IARC Cancer Review: Group 3 for Talc, not containing asbestiform fibres.
    - 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.
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 covered by international regulation on the transport of dangerous goods (IMDG, IATA).

**UN number**

UN-No: 3244

**UN proper shipping name**

Proper Shipping Name: SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.

**Transport hazard class(es)**

Class: 8

**Packing group**

PG: II

**Environmental hazards**

Marine pollutant: No.

Environmentally Hazardous substance: No.

**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 listed: Not available.

National regulation: Hazardous Products Regulations.
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.

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

Approved by DHI.

[Signature]

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.
H318    Causes serious eye damage.
H331    Toxic if inhaled.
H335    May cause respiratory irritation.
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, Agern Allé 5, DK-2970 Hørsholm, Denmark.