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

**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

**Relevant identified uses of the substance or mixture and uses advised against**

**Application:** For embedding of materialographic specimens

**Details of the supplier of the safety data sheet**

**Supplier:** Struers Australia

27 Mayneview Street

Milton QLD 4064, Australia

**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:** +61 7 3512 9600

(Only during office hours)
SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

WHS:
- Skin corrosion/irritation - Category 1B
- Serious eye damage/eye irritation - Category 1
- Skin Sensitisation - Category 1
- Mutagenicity - Category 2

Label elements

Danger

Contains:
- Methenamine
- Calcium dihydroxide
- Phenol
- Formaldehyde

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

P280 Wear protective clothing, gloves, eye and face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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 or doctor/physician.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local regulations.

Other hazards

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

PBT/vPvB: Not relevant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: pigments, resin and fillers.
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 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.
SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: No specific precautions.

Special hazards arising from the substance or mixture

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

Advice for firefighters

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

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

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 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. 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.

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.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2</td>
<td>Phenol</td>
<td>-</td>
<td>1 ppm</td>
<td>4 mg/m³</td>
<td>TWA</td>
<td>Sk</td>
</tr>
<tr>
<td>1305-62-0</td>
<td>Calcium hydroxide</td>
<td>-</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>NOHSC</td>
</tr>
<tr>
<td>1332-58-7</td>
<td>Kaolin (inhalable dust)</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>NOHSC</td>
</tr>
<tr>
<td>7782-42-5</td>
<td>Graphite (natural &amp; synthetic, all forms except fibres) (respirable dust)</td>
<td>-</td>
<td>3 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>NOHSC</td>
</tr>
<tr>
<td>9004-34-6</td>
<td>Cellulose (paper fibre) (inhalable dust)</td>
<td>-</td>
<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>NOHSC</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
<td>-</td>
<td>1 ppm</td>
<td>1.2 mg/m³</td>
<td>TWA</td>
<td>Sen; Carc. 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>2 ppm</td>
<td>2.5 mg/m³</td>
<td>STEL</td>
<td>Sen; Carc. 2; 15min</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>Talc, (containing no asbestos fibres)</td>
<td>-</td>
<td>2.5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>NOHSC</td>
</tr>
<tr>
<td>12001-26-2</td>
<td>Mica</td>
<td>-</td>
<td>2.5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>NOHSC</td>
</tr>
</tbody>
</table>

Notes: Sk: Skin absorption. Sen: Sensitiser.

Exposure controls

Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation. Local exhaust is recommended.

Personal protection: Personal protection equipment should be chosen according to relevant AS/NZS 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.
SECTION 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)

SECTION 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: When heated and in case of fire, toxic vapours/gases may be formed.
SECTION 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 sensitisation:** 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:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** 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.

**Inhalation:** Phenol can be absorbed through the skin and cause chronic poisoning.

**Skin contact:** 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) (*)

SECTION 12: ECOLOGICAL INFORMATION

**Toxicity**

**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.
SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

**Waste from residues:** Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste. Note that fully cured material is not considered as hazardous waste.

**EWC-code:** 16 05 06

**Contaminated packaging:** Dispose of waste and residues in accordance with local authority requirements.

SECTION 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.
SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions. AICS: N/A.

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: 11.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Additional information: Classification according to WHS Regulations 2011:
Calculation method.

Wording of R-phrases and 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.