

SAFETY DATA SHEET



Product name:	MULTIFAST GREEN	Page:	1/11
Revision Date:	2017-01-16	Print date:	2017-01-16
Document No.:	M0196	SDS-ID:	CA-EN/3.0

1. IDENTIFICATION

Product identifier

Product name: MULTIFAST GREEN
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

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Label elements



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.

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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>
2-15	100-97-0	202-905-8	-	Methenamine	Flammable Solid Category 2 Skin Sensitizer Category 1	
5-10	1305-62-0	215-137-3	-	Calcium dihydroxide	Skin Irritation Category 2 Serious Eye Damage Category 1 Specific Target Organ Toxicity Single Exposure Category 3	
<3,5	108-95-2	203-632-7	-	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	
<0.1	50-00-0	200-001-8	-	Formaldehyde	Acute (Oral) Toxicity Category 3 Acute (Dermal) Toxicity Category 3 Acute (Inhalation) Toxicity Category 3 Skin Corrosion Category 1B Skin Sensitizer Category 1 Germ Cell Mutagenicity Category 2 Carcinogenicity Category 1B	

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. 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.

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 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

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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
1305-62-0	Calcium hydroxide	-		5 mg/m3	TWA	3	Alberta
1305-62-0	Calcium hydroxide	-		5 mg/m3	TWA	-	BC
1305-62-0	Calcium hydroxide	-		5 mg/m3	TWA	-	Quebec

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.

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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.

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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>	Causes severe skin burns and eye damage.
<u>Serious eye damage/irritation:</u>	Causes serious eye damage.
<u>Respiratory or skin sensitization:</u>	May cause an allergic skin reaction.
<u>Germ cell mutagenicity:</u>	Suspected of causing genetic defects.
<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>	May cause damage to organs through prolonged or repeated exposure.
<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>	Corrosive. Even small amounts may cause serious damage.
<u>Specific effects:</u>	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.

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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 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

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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.
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.
U.S. Department of health and human services: 2011 - Report on Carcinogens - 12th 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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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.
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.

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