

Product name:	MULTIFAST GREEN AND RED	Page:	1/10
Revision Date:	2016-12-20	Print date:	2016-12-20
Document No.:	M0196	SDS-ID:	AU-EN/2.0

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)

SAFETY DATA SHEET

Product name: MULTIFAST GREEN AND RED Page: 2/10
Revision Date: 2016-12-20 Print date: 2016-12-20
Document No.: M0196 SDS-ID: AU-EN/2.0

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.

SAFETY DATA SHEET

Product name: MULTIFAST GREEN AND RED Page: 3/10
Revision Date: 2016-12-20 Print date: 2016-12-20
Document No.: M0196 SDS-ID: AU-EN/2.0

WHS:

<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	01-2119474895-20-xxxx	Methenamine	Flam. Sol. 2;H228 Skin Sens. 1;H317	
5-10	1305-62-0	215-137-3	-	Calcium dihydroxide	Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335	
<3,5	108-95-2	203-632-7	01-2119471329-32-xxxx	Phenol	Muta. 2;H341 Acute Tox. 3;H331 Acute Tox. 3;H311 Acute Tox. 3;H301 STOT RE 2;H373 Skin Corr. 1B;H314	
<0,1	50-00-0	200-001-8	01-2119488953-20-xxxx	Formaldehyde	Carc. 1B;H350 Muta. 2;H341 Acute Tox. 3;H331 Acute Tox. 3;H311 Acute Tox. 3;H301 Skin Corr. 1B;H314 Skin Sens. 1;H317	B; D

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

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.

SAFETY DATA SHEET

Product name:	MULTIFAST GREEN AND RED	Page:	4/10
Revision Date:	2016-12-20	Print date:	2016-12-20
Document No.:	M0196	SDS-ID:	AU-EN/2.0

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Protective equipment for fire-fighters: 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

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.

SAFETY DATA SHEET

Product name: MULTIFAST GREEN AND RED Page: 5/10
Revision Date: 2016-12-20 Print date: 2016-12-20
Document No.: M0196 SDS-ID: AU-EN/2.0

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

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.

SAFETY DATA SHEET

Product name:	MULTIFAST GREEN AND RED	Page:	6/10
Revision Date:	2016-12-20	Print date:	2016-12-20
Document No.:	M0196	SDS-ID:	AU-EN/2.0

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.

SAFETY DATA SHEET

Product name:	MULTIFAST GREEN AND RED	Page:	7/10
Revision Date:	2016-12-20	Print date:	2016-12-20
Document No.:	M0196	SDS-ID:	AU-EN/2.0

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: 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: 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) (*)

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.

SAFETY DATA SHEET

Product name:	MULTIFAST GREEN AND RED	Page:	8/10
Revision Date:	2016-12-20	Print date:	2016-12-20
Document No.:	M0196	SDS-ID:	AU-EN/2.0

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.

SAFETY DATA SHEET

Product name:	MULTIFAST GREEN AND RED	Page:	9/10
Revision Date:	2016-12-20	Print date:	2016-12-20
Document No.:	M0196	SDS-ID:	AU-EN/2.0

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.

National regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Work Health and Safety Regulations 2011
National model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011)
National model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (2011).
National Exposure Standard [NOHSC:1003(1995)].
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.
The Industrial Chemicals (Notification and Assessment) Act 1989 (Commonwealth), including listing on the Australian Inventory of Chemical Substances (AICS).

SAFETY DATA SHEET

Product name: MULTIFAST GREEN AND RED Page: 10/10
Revision Date: 2016-12-20 Print date: 2016-12-20
Document No.: M0196 SDS-ID: AU-EN/2.0

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.

Allan Vorup

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.
www.dhigroup.com.