

Product name:	MULTIFAST, MULTIFAST GREEN, MULTIFAST RED	Page:	1/9
Revision Date:	2015-05-28	Print date:	2015-05-28
Document No.:	M0041	SDS-ID:	US-EN/14.0

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

### Product identifier

Product name: MULTIFAST, MULTIFAST GREEN, MULTIFAST RED  
Cat. No. 40100027, 40100028, 40100029, 40100030, 40100031, 40100060, 40100061, 40100062, 40100063

Container size: 2,5 kg, 7,5 kg, 25 kg, 75 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 A/S  
Pederstrupvej 84  
DK-2750 Ballerup  
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI  
Any questions to the contents of this material safety data sheet should be sent to:  
Chemical.info@struers.dk

### Emergency telephone number

Emergency telephone: Infotrac:  
1-800-535-5053  
Struers US:  
1-440-871-0071

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

The product is not classified.

67/548/EEC / 1999/45/EC: -

OSHA 2012: -

### Label elements

(\*)

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

NFPA Rating: Health:1 Fire:1 Reactivity:0 Other:-

### Other hazards

Fine particles may form explosive vapor/air mixtures. May irritate eyes and skin. Inhalation of dust may irritate the respiratory system.

PBT/vPvB: Not relevant.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: pigments, resin and fillers.

67/548/EEC:

<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>
45-55	-	-	-	Resin	-	
45-55	-	-	-	Filler	-	
<1	108-95-2	203-632-7	01-2119471329-32-xxxx	Phenol	Muta3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22	

OSHA 2012:

<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>
45-55	-	-	-	Resin	-	
45-55	-	-	-	Filler	-	
<1	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	

Notes: Phenol: Substance with a Community workplace exposure limit.

References: The full text for all R-phrases and hazard statements are 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.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. 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.

### 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.

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## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

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

### Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, toxic vapors/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: Avoid inhalation of dust. Avoid inhalation of vapors and contact with skin and eyes.

### Environmental precautions

Environmental precautions: Do not 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. Dispose of collected dust 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. Avoid contact with skin and eyes. Wash hands before breaks and before smoking, eating or drinking. Observe good chemical hygiene practices.

Technical measures: Work practice should minimize contact.

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

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## 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	-	5 ppm	TWA	Skin; A4	ACGIH
12001-26-2	Mica, respirable fraction	-	3 mg/m3	TWA	-	ACGIH
9004-34-6	Cellulose	-	10 mg/m3	TWA	-	ACGIH
-	Particles (Insoluble or Poorly Soluble), not Otherwise Specified, respirable particles	-	3 mg/m3	TWA	-	ACGIH
-	Particles (Insoluble or Poorly Soluble), not Otherwise Specified, inhalable particles	-	10 mg/m3	TWA	-	ACGIH
108-95-2	Phenol	-	5 ppm	19 mg/m3 TWA	Skin	OSHA
12001-26-2	Mica, respirable dust	-	20 mppcf	TWA	-	OSHA
1317-65-3	Limestone, total dust	-	15 mg/m3	TWA	-	OSHA
1317-65-3	Limestone, respirable fraction	-	5 mg/m3	TWA	-	OSHA
9004-34-6	Cellulose, total dust	-	15 mg/m3	TWA	-	OSHA
9004-34-6	Cellulose, respirable fraction	-	5 mg/m3	TWA	-	OSHA
-	Particulates not otherwise regulated (PNOR), total dust	-	15 mg/m3	TWA	-	OSHA
-	Particulates not otherwise regulated (PNOR), respirable fraction	-	5 mg/m3	TWA	-	OSHA

Notes:

Skin: Danger of cutaneous absorption. (ACGIH)

Skin: Skin absorption. (OSHA)

A4: Not Classifiable as a Human Carcinogen.

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## **Exposure controls**

<u>Engineering measures:</u>	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation. Local exhaust is recommended.
<u>Personal protection:</u>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<u>Respiratory equipment:</u>	In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with combination filter, type A2/P2.
<u>Hand protection:</u>	Wear protective gloves. Butyl rubber 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.
<u>Eye protection:</u>	Risk of contact: Wear goggles/face shield.
<u>Skin protection:</u>	No special precautions.
<u>Environmental Exposure Controls:</u>	Demand for control of air pollution.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

<u>Appearance:</u>	Black, green, brown or red granular with powder
<u>Odor:</u>	None
<u>pH:</u>	Not available.
<u>Boiling point:</u>	Not available.
<u>Flash point:</u>	Not available.
<u>Explosion limits:</u>	Not available.
<u>Relative density:</u>	1,40 - 1,45
<u>Solubility:</u>	insoluble in water
<b><u>Other information</u></b>	
<u>Other data:</u>	Volatile Organic Compound (VOC): < 10 g/l (calculated)

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## 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: None specific.

### Incompatible materials

Incompatible materials: None known.

### Hazardous decomposition products

Hazardous decomposition products: When heated and in case of fire, toxic vapors/gases may be formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Inhalation: Dust may irritate throat and respiratory system and cause coughing.

Skin contact: Phenol can be absorbed through the skin and cause chronic poisoning.

Eye contact: Dust may cause irritation.

Ingestion: May irritate and cause malaise.

Specific effects: Contains a small amount of a substance/group of substances with possible risks of irreversible effects.  
Carcinogenicity:  
IARC Cancer Review: Group 3 for Phenol.  
National Toxicology Program (NTP): No.  
OSHA: No.

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## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Ecotoxicity: The environmental hazard of the product is considered to be limited.

### Persistence and degradability

Degradability: The degradability of the product has not been stated.

### 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

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

Waste from residues: EWC-code: 16 05 09

## SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

### UN number

UN-No: -

### UN proper shipping name

Proper Shipping Name: -

### Transport hazard class(es)

Class: -

### Packing group

PG: -

### Environmental hazards

Marine pollutant: -

Environmentally Hazardous substance: -

### 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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## SECTION 15: REGULATORY INFORMATION

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

Special provisions: TSCA: Listed.

National regulation: 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.

Europe/USA:  
This Material Safety Data Sheet has been prepared according to the EU-regulation.  
Threshold Limit Values (2014), ACGIH, by the American Conference on Governmental Industrial Hygienists.  
The Code of Federal Regulation, Title 29, part 1910. Occupational Safety and Health Standards, Air contaminants (OSHA), with amendments.  
International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

### Chemical Safety Assessment in compliance with Regulation (EC) No 1907/2006 (REACH)

CSA status: Not relevant.



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## 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: 2.

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

Approved by DHI.

*Allan Vorup*

### Additional information:

Classification according to HCS 2012:  
Calculation method.

### Wording of H-statements:

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R68	Possible risk of irreversible effects.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
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, Artens Allé 5, DK-2970 Hørsholm, Denmark.  
[www.dhigroup.com](http://www.dhigroup.com).