

# MATERIAL SAFETY DATA SHEET



according to EEC Directives 91/155/EEC and 93/112/EC

Product name:	TRIOFIX-2 POWDER	Page:	1/5
Last revised date:	2000-01-27	Print date:	2000-01-28
P/N-no.:	M1201060	SDS-ID:	US-D/1.0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

<u>Product name:</u>	TRIOFIX-2 POWDER		
<u>Application:</u>	For embedding of materialographic specimens	<u>Container size:</u>	0.75 kg
<u>Supplier:</u>	Struers A/S Valhøjs Allé 176 DK-2610 Rødovre Tel: 45 3670 3500		

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: plasticizer and fillers.

<u>Chemical name:</u>	<u>CAS-No.:</u>	<u>%:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
Dibutyl phthalate	84-74-2	1-3	Rep3;R62-63 N;R50/53	-
Dibenzoyl peroxide	94-36-0	1-3	E;R2 Xi;R36 R43	-
Quartz	14808-60-7	60-100	-	-

## 3. HAZARDS IDENTIFICATION

<u>Man:</u>	Possible risk of impaired fertility. Possible risk of harm to the unborn child. Irritating. Risk of sensitization or allergic reactions among sensitive individuals.
<u>Environment:</u>	The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

## 4. FIRST-AID MEASURES

<u>Inhalation:</u>	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring along these instructions.
<u>Skin contact:</u>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.
<u>Eye contact:</u>	Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.
<u>Ingestion:</u>	Immediately rinse mouth and drink plenty of water. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions. Do not induce vomiting.

## 5. FIRE-FIGHTING MEASURES

<u>Extinguishing media:</u>	Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
<u>Specific hazards:</u>	By heating and fire, toxic vapours may be formed.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid inhalation of dust and contact with skin and eyes. For personal protection, see point 8.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up: Moisten spillage with water. Absorb spillage with absorbing material. Look out! The product is hazardous to your health. For waste disposal, see point 13.

## 7. HANDLING AND STORAGE

Safe handling advice: Avoid spread of dust. Avoid inhalation of dust and contact with skin and eyes. Avoid eating, drinking and smoking when using the product. Observe good industrial hygiene practices.

Technical measures: Work practice should minimise contact.

Technical precautions: Local exhaust is recommended.

Technical measures for safe storage: No special precautions.

Storage conditions: Store under well-ventilated conditions at a temperature below 25°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. An eye wash bottle must be available at the work site. Local exhaust is recommended.

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
Quartz	0,1mg/m <sup>3</sup>	TWA	-	ACGIH (1999)
Benzoyl peroxide	5mg/m <sup>3</sup>	TWA	A4	ACGIH (1999)
Benzoyl peroxide	5mg/m <sup>3</sup>	TWA	-	OSHA 1998
Dibutyl phthalate	5mg/m <sup>3</sup>	TWA	-	ACGIH (1999)
Dibutyl phthalate	5mg/m <sup>3</sup>	TWA	-	OSHA 1998

Respiratory equipment: During dust-raising work: Use respiratory equipment with particle filter, type P2.

Hand protection: Wear protective gloves.

Eye protection: Goggles/face shield are recommended.

Skin protection: No special precautions.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white powder  
Odour: odourless  
pH: not available  
Melting point: approx. 1700°C  
Boiling point: not available  
Flash point: >250°C  
Relative density: 2.65  
Solubility: insoluble in water

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

Conditions/  
materials to avoid: Heating. Direct sunlight.  
Reacts violently with strong acids.

Hazardous  
decomposition products: By heating, toxic vapours are formed.

## 11. TOXICOLOGICAL INFORMATION

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

Skin contact: Irritating. Risk of sensitization or allergic reactions among sensitive individuals.

Eye contact: Dust in the eyes will cause irritation.

Ingestion: May irritate and cause malaise.

Specific effects: Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility.  
Carcinogenicity:  
National Toxicology Program (NTP): Yes  
I.A.R.C. Monographs: Yes  
OSHA: Yes

## 12. ECOLOGICAL INFORMATION

Mobility: The product is insoluble in water and will sediment in water systems.

Degradability: The product is not biodegradable.

Ecotoxicity: The product contains substances which are very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues according to agreement with local authorities. Waste should be considered as dangerous waste.

Waste from residues: EWC-code: 20 01 12

Contaminated packaging: Dispose of contaminated packings as residue.

## 14. TRANSPORT INFORMATION

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

## 15. REGULATORY INFORMATION

Labelling:

Contains: Dibenzoyl peroxide



Irritant

R43

May cause sensitisation by skin contact.

S36/37

Wear suitable protective clothing and gloves.

NFPA Rating:



Specific provisions:

TSCA: Listed.

National regulation:

Europe/USA:

This Safety Data Sheet has been prepared according to the EU-regulation.

EC Directives 67/548/EEC on dangerous substances and 88/379/EEC on dangerous preparations (up to and inclusive of the 25th adaptation).

Threshold Limit Values (1999), 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, 1998.

U.S. Department of health and human services: 1998 - Report on Carcinogens - 8th Ed.

International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Volumes 1-73. Lyon: IARC, World Health Organization, 1972-1998.

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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.

Released: 9 April 1996

Approved by DTC.

*Frank G. Berglund*

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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