

Material Safety Data Sheet According to 91/155 EEC

Printing date 25.10.2004

Reviewed on 25.10.2004

1 Identification of substance

· **Product details**

- **Trade name:** Technovit 8100 hardener 2
 - **Application of the substance / the preparation** Resin for histological examinations
- **Manufacturer/Supplier:**
Heraeus Kulzer GmbH
Grüner Weg 11, D-63450 Hanau
Tel.: 06081 959-365 (Wehrheim)
- **Informing department:**
Department of safety:
Dr. Tuchscherer +49 6081 959-287
- **Emergency information:** Call +49 30 19240 (24 hours).

2 Composition/Data on components:

· **Chemical characterization**

· **Description:**

-
-

· **Dangerous components:**

CAS: 4913-13-7	N,N,3,5-tetramethylaniline	Xn; R 20/21/22-33-36/37/38	0-5%
EINECS: 225-539-0			

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 33 Danger of cumulative effects.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Initiate vomiting and consult a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents** void
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Dilute with much water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

(Contd. on page 2)

GB

Material Safety Data Sheet According to 91/155 EEC

Printing date 25.10.2004

Reviewed on 25.10.2004

Trade name: Technovit 8100 hardener 2

· **Additional information:** No dangerous materials are released.

(Contd. of page 1)

7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
 - **General protective and hygienic measures**
Wash hands during breaks and at the end of the work.
 - **Breathing equipment:** Not required.
 - **Protection of hands:** Not required.
 - **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
PVC or PE gloves
 - **Eye protection:** not absolutely necessary
 - **Body protection:** Light weight protective clothing

9 Physical and chemical properties:

- **General Information**

· Form:	Fluid
· Colour:	Colourless
· Smell:	Odourless
- **Change in condition**
 - **Melting point/Melting range:** -38--36°C
 - **Boiling point/Boiling range:** Not determined
- **Flash point:** Not applicable
- **Ignition temperature:** 320.0°C

(Contd. on page 3)

GB

Material Safety Data Sheet According to 91/155 EEC

Printing date 25.10.2004

Reviewed on 25.10.2004

Trade name: Technovit 8100 hardener 2

(Contd. of page 2)

· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Steam pressure at 20°C:	1 hPa
· Density at 20°C	1.150 g/cm ³
· Solubility in / Miscibility with	
· Water at 20°C:	500 g/l
· Viscosity:	
· dynamic at 20°C:	100 mPas
· Solvent content:	
· Organic solvents:	0.0 %
· VOC EU	g/l
· VOC EU	0.00 %

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.

12 Ecological information:

- **General notes:** Generally not hazardous for water.

13 Disposal considerations

- **Product:**
 - **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.
 - **Waste disposal key number:** 55370

· **European waste catalogue**

11 01 98 other wastes containing dangerous substances

- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 4)

GB

Material Safety Data Sheet According to 91/155 EEC

Printing date 25.10.2004

Reviewed on 25.10.2004

Trade name: Technovit 8100 hardener 2

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

(Contd. of page 3)

14 Transport information

· **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

· **ADR/RID-GGVS/E Class:** -

· **Maritime transport IMDG/GGVSea:**

· **IMDG/GGVSea Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Risk phrases:**

33 Danger of cumulative effects.

· **National regulations**

· **Water hazard class:** Generally not hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

36/37/38 Irritating to eyes, respiratory system and skin.

· **Contact:**

Dr. Tuchscherer Tel.: (49) 6081 959-287

christian.tuchscherer@heraeus.com

· * **Data compared to the previous version altered.**

GB