

**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 9100 regulator new**
 - **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:**
 - **CAS No. Designation:**
143-10-2 decane-1-thiol
 - **Identification number(s):** -
 - **EINECS Number:** 205-584-2

3 Hazards identification· **Hazard designation:**

Xi Irritant

- **Information pertaining to particular dangers for man and environment**
R 36/37/38 Irritating to eyes, respiratory system and skin.

4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** Initiate vomiting and consult a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Special hazards caused by the material, its products of combustion or flue gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.

(Contd. on page 2)

GB

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(Contd. of page 1)

- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- **Additional information:** No dangerous materials are released.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** Keep containers tightly sealed.
 - **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**
*Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.*
 - **Breathing equipment:**
Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).
 - **Protection of hands:**
*Solvent resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
 - **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.
 - **Penetration time of glove material**
The exact break trough 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:**
PVA gloves
 - **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
*Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Chloroprene rubber, CR*
 - **Eye protection:** Protective goggles are recommended.

(Contd. on page 3)

GB

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· **Body protection:** Light weight protective clothing

(Contd. of page 2)

9 Physical and chemical properties:

· General Information

· **Form:** Fluid
 · **Colour:** Colourless
 · **Smell:** Characteristic

· Change in condition

· **Melting point/Melting range:** -26°C
 · **Boiling point/Boiling range:** 275°C

· **Flash point:** 88°C

· **Danger of explosion:** Product is not explosive.

· **Density at 20°C** 0.85 g/cm³

· Solubility in / Miscibility with

· **Water:** Not miscible or difficult to mix

· 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:** Irritant for skin and mucous membranes.
 · **on the eye:** Irritant effect.
 · **Sensitization:** No sensitizing effect known.

12 Ecological information:

· **General notes:**
 Water danger class 3 (calculated according to VwVwS): extremely hazardous for water.
 Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into soil.

GB

(Contd. on page 4)

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(Contd. of page 3)

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

11 01 98 other wastes containing dangerous substances

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

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:** 9

· **UN/ID Number:** 3334

· **Correct technical name:** AVIATION REGULATED LIQUID, N.O.S. (decane-1-thiol)

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)

· **Code letter and hazard designation of product:**

Xi Irritant

· **Risk phrases:**

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

· **National regulations**

· **Water hazard class:**

Water danger class 3 (calculated according to VwVwS): extremely 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.

· **Contact:**

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

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