1 Identification of substance

- **Product details**
  - **Trade name:** DTT, 1M
  - **Manufacturer/Supplier:**
    QIAGEN GmbH, QIAGEN Str. 1, 40724 Hilden, Germany
    Tel.: (+49)-2103/29-0
  - **Information department:**
    QIAGEN Technical Service
    QIAGEN Inc., 27220 Turnberry Lane, Valencia, CA 91355, USA
    Tel.: 1-800-DNA-PREP (1-800-362-7737)
    Email: techservice-us@qiagen.com
  - **Emergency information:**
    CHEMTREC
    USA & Canada 1-800-424-9300
    Outside USA & Canada +1 703-527-3887

2 Composition/Data on components

- **Chemical characterization**
  - **Description:** Mixture of substances listed below with nonhazardous additions.
  - **Dangerous components:**
    3483-12-3 (R*,R*)-1,4-dimercaptobutane-2,3-diol 10-25%
  - **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**
  The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**
  - Health = 0
  - Fire = 0
  - Reactivity = 0
- **WHMIS-ratings (scale 0 - 4)**
  - Health = 0
  - Fire = 0
  - Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
  Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Immediately call a doctor.

5 Fire fighting measures

- **Suitable extinguishing agents:**
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
6 Accidental release measures

- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:**
  Do not allow product to reach sewage system or any water course.
- **Measures for cleaning/collecting:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
  - Information for safe handling: Keep receptacles tightly sealed.
  - Information about protection against explosions and fires: No special measures required.
- **Storage:**
  - Requirements to be met by storerooms and receptacles: 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 limit 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.
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    The usual precautionary measures for handling chemicals should be followed.
  - **Protection of hands:** Protective gloves
  - **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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Tightly sealed goggles

9 Physical and chemical properties

- **General Information**
  - **Form:** Fluid
  - **Color:** Clear
  - **Odor:** Characteristic
- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
Trade name: DTT, 1M

- Density: Not determined.
- Solubility in / Miscibility with Water: Fully miscible.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions: Reacts with acids, alkalis and oxidizing agents.
- Dangerous products of decomposition: Danger of toxic pyrolysis products.

11 Toxicological information

- Acute toxicity:
  - Primary irritant effect:
    - on the skin: Irritant to skin and mucous membranes.
    - on the eye: Irritating effect.
    - Sensitization: No sensitizing effects known.
- Additional toxicological information:
The product is not subject to classification according to internally approved calculation methods for preparations.

12 Ecological information

- General notes:
  Water hazard class 1 (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- DOT regulations: -
- Hazard class: -
- Land transport ADR/RID (cross-border):
  - ADR/RID class: -
- Maritime transport IMDG:
  - IMDG Class: -
  - Marine pollutant: No
Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

15 Regulations

- Sara
  - Section 313 (Specific toxic chemical listings):
    None of the ingredients is listed.
- TSCA (Toxic Substances Control Act): All ingredients are listed.
- Proposition 65
  - Chemicals known to cause cancer:
    None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for females:
    None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for males:
    None of the ingredients is listed.
  - Chemicals known to cause developmental toxicity:
    None of the ingredients is listed.
- Cancerogenity categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - MAK (German Maximum Workplace Concentration)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.
- Product related hazard informations:
  Observe the general safety regulations when handling chemicals.
  The product is not subject to identification regulations according to directives on hazardous materials.
- National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.