

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/26/2013

Reviewed on 02/26/2013

## 1 Identification of substance

- **Product details**
- **Trade name:** Buffer QF
- **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:**  

67-63-0 propan-2-ol	10-25%
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## 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
Flammable.
- **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 = 3  
Reactivity = 0
- **WHMIS-ratings (scale 0 - 4)**  
Health = 0  
Fire = 3  
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:** Call a doctor immediately.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **Protective equipment:** Do not inhale explosion gases or combustion gases.

## 6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:**  
Prevent seepage into sewage system, workpits and cellars.
- **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:**  
Keep ignition sources away - Do not smoke.
- **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:** Keep receptacle tightly sealed.

## 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:**
- **CAS No. Designation of material    %    Type    Value Unit**
- 67-63-0 propan-2-ol**
- ACGIH TLV Short-term value: (500) ppm  
Long-term value: (400) ppm  
(-)
- NIOSH REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm  
Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- OSHA PEL 980 mg/m<sup>3</sup>, 400 ppm
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **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 break trough 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:** Colorless
- Odor:** Characteristic
- **Change in condition**
- Melting point/Melting range:** Undetermined.

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**Boiling point/Boiling range:** Undetermined.

- **Flash point:** 21 - 55°C (70 - 131°F)
- **Ignition temperature:** 425°C (797°F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**
  - Lower:** 2.0 Vol %
  - Upper:** 12.0 Vol %
- **Vapor pressure at 20°C (68°F):** 43 hPa (32 mm Hg)
- **Density at 20°C (68°F):** 1.009 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** Fully miscible.
- **pH-value at 20°C (68°F):** 8.5

## 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.

## 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.

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## 14 Transport information

- DOT regulations:
- Hazard class: 3
- Identification number: UN1987
- Proper shipping name (technical name): ALCOHOLS, N.O.S., 2-propanol solution
- Land transport ADR/RID (cross-border):
- ADR/RID class: 3 Flammable liquids
- Danger code (Kemler): 30
- UN-Number: 1987
- Packaging group: III
- Description of goods: 1987 Alcohols, n.o.s., 2-propanol solution
- Maritime transport IMDG:
- IMDG Class: 3
- UN Number: 1987
- Packaging group: III
- Marine pollutant: Nein
- Proper shipping name: ALCOHOLS, N.O.S., 2-propanol solution
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 3
- UN/ID Number: 1987
- Packaging group: III
- Proper shipping name: ALCOHOLS, N.O.S., 2-propanol solution

## 15 Regulations

- Sara
- Section 313 (Specific toxic chemical listings):  
67-63-0 propan-2-ol
- TSCA (Toxic Substances Control Act):
- 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)  
67-63-0 propan-2-ol
- 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.

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**· Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

**· Risk phrases:**

Flammable.

**· National regulations:****· Technical instructions (air):****· Class Share in %**

· III 10-25

· **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.