

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: Binding Buffer B6 (Component of **GenoType DNA Isolation Kit**)

Date of issue: June 10, 2005

Revised at: May 27, 2019 (version D)



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## **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identifier**

Trade name: Binding Buffer B6 (component of **GenoType DNA Isolation Kit**)

Order number of **GenoType DNA Isolation Kit**: 51548

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Laboratory chemical

### **1.3 Details of the supplier of the safety data sheet**

Hain Lifescience GmbH

Hardwiesenstr. 1

72147 Nehren, Germany

Tel.: +49 (0) 74 73- 94 51- 0

E-mail: msds@hain-lifescience.de

### **1.4 Emergency telephone number**

+49 (0) 74 73- 94 51- 0 (Mon-Fri 8:00-17:00 CET)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008:

Flammable liquids (category 2)

Eye irritation (category 2)

Specific target organ toxicity - single exposure (category 3)

### **2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H225:

Highly flammable liquid and vapour.

H319:

Causes serious eye irritation.

H336:

May cause drowsiness or dizziness.

Precautionary statements:

P210:

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P233:

Keep container tightly closed.

P305+351+338:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

### **2.3 Other hazards**

none

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## **SECTION 3: Composition/information on ingredients**

### **3.2 Mixtures**

50-100% 2-propanol (Index no. 603-117-00-0, EC no. 200-661-7, CAS no. 67-63-0)

Classification of 2-propanol (100%) according to Regulation (EC) No. 1272/2008: Flammable liquids (category 2), eye irritation (category 2), specific target organ toxicity - single exposure (category 3); H225-319-336

Full text of hazard statements: see section 16.

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

If symptoms arise, call a physician.

If inhaled:	Remove to fresh air. Call a physician.
If swallowed:	Wash out mouth with plenty of water. Drink plenty of water. Call a physician.
In case of skin contact:	Immediately wash skin with soap and copious amounts of water. Remove contaminated clothing. Call a physician.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

### **4.2 Most important symptoms and effects, both acute and delayed**

No data available.

### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

No restriction; use any means suitable for extinguishing surrounding fire.

### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear gloves and chemical safety goggles. Remove all sources of ignition. Ventilate area and wash spill site after material pickup is complete.

### **6.2 Environmental precautions**

Do not allow large quantities of product to enter drains.

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## 6.3 Methods and material for containment and cleaning up

Pick up mechanically.

## 6.4 Reference to other sections

Disposal: see section 13.

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

No further requirements.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed at 15°C to 30°C in a dry, ventilated area away from heat sources and flammable and toxic substances.

### 7.3 Specific end use(s)

No data available.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### 2-propanol:

Threshold limit value (AGW; TRGS 900): 200 ml/m<sup>3</sup>; 500 mg/m<sup>3</sup>

Top limiting: exceedance factor 2

Duration 15 min, mean value; 4x per shift; interval 1 h

Category II - substances with a resorptive effect

A risk of foetal damage is ceased to fear if threshold limit value and biological limit value will be complied to.

Biological limit value (measured parameter: acetone; whole blood and urine): 50 mg/l

### 8.2 Exposure controls

Wear suitable protective clothing, gloves, and chemical safety goggles when handling the product. Close vial tightly immediately after use. Wash hands thoroughly after handling.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- a) Appearance: colourless liquid
- b) Odour: alcohol-like
- c) Odour threshold: No data available.
- d) pH: No data available.
- e) Melting point/freezing point: No data available.
- f) Initial boiling point and boiling range: No data available.
- g) Flash point: No data available.
- h) Evaporation rate: No data available.
- i) Flammability (solid, gas): No data available.
- j) Upper/lower flammability or explosive limits: No data available.
- k) Vapour pressure: No data available.
- l) Vapour density: No data available.
- m) Relative density: No data available.
- n) Solubility(ies): water soluble

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- o) Partition coefficient n-octanol/water: No data available.
- p) Auto-ignition temperature: No data available.
- q) Decomposition temperature: No data available.
- r) Viscosity: No data available.
- s) Explosive properties: No data available.
- t) Oxidising properties: No data available.

## 9.2 Other information

No data available.

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Keep away from sources of ignition.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No data available.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

- a) Acute toxicity:
  - 2-propanol:**
    - LD50 (oral, rat): 5045 mg/kg
    - LC50 (inhalation, rat): 16000 ppm (8 h)
    - LD50 (dermal, rabbit): 12800 mg/kg
- b) Skin corrosion/irritation:
  - 2-propanol:**
    - Rabbit: weak skin irritation
- c) Serious eye damage/irritation:
  - 2-propanol:**
    - Rabbit (24 h): eye irritation
- d) Respiratory or skin sensitisation: No data available.
- e) Germ cell mutagenicity: No data available.
- f) Carcinogenicity: No data available.

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- g) Reproductive toxicity: No data available.
- h) Specific target organ toxicity - single exposure: No data available.
- i) Specific target organ toxicity - repeated exposure: No data available.
- j) Aspiration hazard: No data available.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **2-propanol:**

LC50 (Pimephales promelas): 9640 mg/l -96 h

EC50 (Daphnia magna): 5102 mg/l -24 h

EC50 (Desmodesmus subspicatus): >2000 mg/l -72 h

### **12.2 Persistence and degradability**

No data available.

### **12.3 Bioaccumulative potential**

No data available.

### **12.4 Mobility in soil**

No data available.

### **12.5 Results of PBT and vPvB assessment**

No data available.

### **12.6 Other adverse effects**

No data available.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Dispose of unused reagents and waste in accordance with federal, state, and local regulations.

## **SECTION 14: Transport information**

### **14.1 UN number**

ADR/RID: 1219

IMDG: 1219

IATA: 1219

### **14.2 UN proper shipping name**

ADR/RID: ISOPROPANOL

IMDG: ISOPROPANOL

IATA: ISOPROPANOL

### **14.3 Transport hazard class(es)**

ADR/RID: 3

IMDG: 3

IATA: 3

### **14.4 Packing group**

ADR/RID: II

IMDG: II

IATA: II

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## 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

## 14.6 Special precautions for user

No data available.

## **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2 Chemical safety assessment

No data available.

## **SECTION 16: Other information**

The following hazard statements refer to the classification of the components (pure substance, 100%) and not to the classification of the mixture:

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

The above product shall be used by trained staff only. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Hain Lifescience shall not be held liable for any damage or other consequences resulting from handling or from contact with the above product.

### **Changes compared to the previous version of this document**

Chapter 1.1 (order number)