

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: Inactivation Reagent

Date of issue: September 17, 2019

Revised at: – (Version A)



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

### 1.1 Product identifier

Trade name: **Inactivation Reagent**; component of the **Inactivation Set**

Order number: 007-522960

### 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.mdx.de@bruker.com

### 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), central nervous system

### 2.2 Label elements

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

Hazard pictogram:



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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261:

Avoid breathing vapours.

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

>95% (w/w) 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

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irritation (category 2), Specific Target Organ Toxicity – Single Exposure (category 3), central nervous system; 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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **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. Ventilate area and wash spill site after material pickup is complete.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **6.3 Methods and material for containment and cleaning up**

Pick up mechanically.

### **6.4 Reference to other sections**

Disposal: see section 13.

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## **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 2°C to 25°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: liquid, blue
- b) Odour: alcohol-like
- c) Odour threshold: No data available.
- d) pH: No data available.
- e) Melting point/freezing point: approx. -89°C
- f) Initial boiling point and boiling range: approx. 82°C
- g) Flash point: approx. 12°C (closed cup)
- 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: 0.785
- n) Solubility(ies): water soluble
- o) Partition coefficient n-octanol/water: No data available.
- p) Auto-ignition temperature: approx. 425°C
- q) Decomposition temperature: No data available.
- r) Viscosity: No data available.
- s) Explosive properties: No data available.
- t) Oxidising properties: No data available.

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## 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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids

### 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

LD50 (inhalation, rat): 8h, 16000 ppm

LD50 (dermal, rabbit): 12800 mg/kg

b) Skin corrosion/irritation: No data available.

c) Serious eye damage/irritation: No data available.

d) Respiratory or skin sensitisation: No data available.

e) Germ cell mutagenicity: No data available.

f) Carcinogenicity: No data available.

g) Reproductive toxicity: No data available.

h) Specific target organ toxicity - single exposure: Inhalation, oral – May cause drowsiness or dizziness.

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

Fish toxicity:

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

Daphnia toxicity:

EC50 (Daphnia magna): 5102 mg/l /48h

Algae toxicity:

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

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## 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

### 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.

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## 15.2 Chemical safety assessment

No data available.

## **SECTION 16: Other information**

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**

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