

1. IDENTIFICATION

Catalog Number / Product Name: 221-44863-02 / Custom 1-Butanol Standard
Company: Shimadzu Scientific Instruments
Address: 7102 Riverwood Drive
Columbia, MD 21046
Phone#: 800-477-1227
Fax#: 410-381-1222
Emergency#: 1-800-424-9300 (CHEMTREC)
+1 703-741-5970 (Outside the US)
Email: sds@restek.com
Revision Number: 2
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Classification: Not classified as hazardous under GHS

GHS Precautions:

Single Exposure Target Organs: Specific target organ toxicity - Single exposure - STOT SE 3: H335 May cause respiratory irritation.; Specific target organ toxicity - Single exposure - STOT SE 3: H336 May cause drowsiness or dizziness.

Repeated Exposure Target Organs: No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINEC #	% Composition
water	7732-18-5	231-791-2	100
1-butanol	71-36-3	200-751-6	0.01

4. FIRST-AID MEASURES

Inhalation: This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure. Remove to fresh air.

Eyes: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

Skin Contact: Wash with soap and water.

Ingestion: No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: None Known

Fire and/or Explosion Hazards: No data.

Fire Fighting Methods and Protection: Will not burn, no special instructions available. Use methods appropriate for surrounding materials.

Hazardous Combustion Products: None Known

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this SDS.

Methods for Clean-up: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: No special handling instructions due to toxicity. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Technical Measures and Conditions: No data available. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
water	7732-18-5	Not established	None Known	Not established	No data available

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapours from handling or thermal processing.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear safety glasses when handling this product.

Skin Protection: Wear protective gloves when handling this product.

Medical Conditions Aggravated By Exposure: No medical conditions affected by exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color: No data available

Odor: None

Physical State: No data available

pH: Not applicable

Vapor Pressure: No data available

Boiling Point: 100 °C Boiling Point

Melting Point: 0.0 °C Melting Point

Flash Point: No data available

Upper Flammable/Explosive Limit, % in air: No data available

Lower Flammable/Explosive Limit, % in air: No data available

Autoignition Temperature: No data available deg C

Decomposition Temperature: No data available

Specific Gravity: 0.99821 g/cm³ at 20 °C

Evaporation Rate: No data available

Odor Threshold: No data available

Solubility: Not determined

Partition Coefficient: n-octanol in water: No data available

VOC % by weight: 0.01

Molecular Weight: No data available

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Materials to Avoid / Chemical Incompatibility: None Known

Hazardous Decomposition Products: None Known

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

Target Organs Potentially Affected By Exposure: No data available

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: No hazard in normal industrial use.

Skin Contact: No hazard in normal industrial use.

Eye Contact: No hazard in normal industrial use.

Ingestion Irritation: No hazard in normal industrial use.

Ingestion Toxicity: No hazard in normal industrial use.

Long-Term (Chronic) Health Effects:

Carcinogenicity:

No data.

Reproductive and Developmental Toxicity:

No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Inhalation:

Upon prolonged and/or repeated exposure, no hazard in normal industrial use.

Skin Contact:

Unlikely to cause irritation even on repeated contact.

Component Toxicological Data:

NIOSH:

Chemical Name
Water

CAS No.
7732-18-5

LD50/LC50
Oral LD50 Rat >90 mL/kg

Component Carcinogenic Data:

OSHA:

Chemical Name
No data available

CAS No.

ACGIH:

Chemical Name
No data available

CAS No.

NIOSH:

Chemical Name
No data available

CAS No.

NTP:

Chemical Name
No data available

CAS No.

IARC:

Chemical Name

CAS No.

Group No.

12. ECOLOGICAL INFORMATION

Overview:

This material is not expected to be harmful to the ecology.

Mobility:

No data

Persistence:

No data

Bioaccumulation:

No data

Degradability:

No data

Ecological Toxicity Data:

No data available

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:

Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.

Disposal Methods:

Dispose of by waste water treatment following Federal, State, Local, or Provincial regulations.

Waste Disposal of Packaging:

Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:

DOT Not Regulated

UN Number:

Not regulated

Hazard Class:

Not applicable

Packing Group:

Not applicable

International:

IATA Proper Shipping Name:

IATA Not Regulated

UN Number:

Not regulated.

Hazard Class:

Not applicable

Packing Group:

Not applicable

Marine Pollutant:

No

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
water	7732-18-5	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
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State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
water	7732-18-5	-	-	-	-
1-butanol	71-36-3	-	-	-	-

16. OTHER INFORMATION

Prior Version Date: 01/15/19

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available

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