

# **Safety Data Sheet**

Review Date: 4-Oct-2023

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### Section 1 - Chemical Product and Company Identification

Product Name	sec-Butyl Alcohol extrapure, 99%
Product Code	95725
CAS No	78-92-2
Use for	Laboratory Chemicals.
Company Name	Sisco Research Laboratories Pvt. Ltd.
Address	608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road, Andheri (E), Mumbai - 400 099, India

#### Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
78-92-2	sec-Butanol	<=100	201-158-5

#### Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

*Flammable. Irritating to eyes and respiratory system. Vapours may cause drowsiness and dizziness.* **Potential Health Effects** 

Eye:	Causes eye irritation.
Skin:	May cause skin irritation. May be harmful if absorbed
	through the skin.
Ingestion:	May cause irritation of the digestive tract. May be harmful
-	if swallowed.
Inhalation:	Causes respiratory tract irritation. May be harmful if inhaled. Inhalation of vapors may cause
	drowsiness and dizziness.
Chronic:	

# Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and	
	lower eyelids. Get medical aid.	
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing	
	contaminated clothing and shoes.	
Ingestion:	Get medical aid. Wash mouth out with water.	
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately.	
	If not breathing, give artificial respiration. If breathing is difficult, give	
	oxygen.	
Notes to Physician:		

#### **Section 5 - Fire Fighting Measures**



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Product Code	95725		
General Infor	MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire.		
Extinguishing	Media: Use water spray to cool fire-exposed containers. Water may be ineffective. Use water fog, dry chemical, carbon dioxide, or regular foam.		
Section 6 - Accidental Release Measures			
General Information:Use proper personal protective equipment as indicated in Section 8.Spills/Leaks:Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.			
Section 7 - Handling and Storage			
Handling:	Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing.		
Storage:	Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. May form explosive peroxides on prolonged storage.		

# Section 8 - Exposure Control / Personal Protection



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#### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

# **Exposure Limits**

CAS# 78-92-2: United Kingdom, WEL - TWA: 100 ppm TWA; 308 mg/m3 TWA United Kingdom, WEL - STEL: 150 ppm STEL; 462 mg/m3 STEL United States OSHA: 150 ppm TWA; 450 mg/m3 TWA Belgium - TWA: 100 ppm VLE; 307 mg/m3 VLE France - VME: 100 ppm VME; 300 mg/m3 VME Germany: 100 ppm TWA; 300 mg/m3 TWA Japan: 100 ppm OEL; 300 mg/m3 OEL Malaysia: 100 ppm TWA; 303 mg/m3 TWA Netherlands: 150 ppm MAC; 450 mg/m3 MAC Russia: 10 mg/m3 TWA (vapour) Spain: 100 ppm VLA-ED; 308 mg/m3 VLA-ED

#### **Personal Protective Equipment**

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Eyes:	Wear chemical splash goggles.	
Skin:	Wear appropriate protective gloves to prevent skin	
	exposure.	
Clothing:	Wear appropriate protective clothing to prevent skin	
	exposure.	
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard	
-	EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	

#### **Section 9 - Physical and Chemical Properties**

Physical State:	Clear liquid
Boiling Point:	99 deg Ĉ @760mmHg ( 210.20°F)
Freezing/Melting Point:	-115 deg C ( -175.00°F)
Solubility in water:	125 g/l (20°C)
Specific Gravity/Density:	0.800
Molecular Formula:	C4H10O
Molecular Weight:	74.12

#### Section 10 - Stability and Reactivity



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Chemical Stability:	Stable under normal temperatures and pressures. This material may be sensitive to peroxide formation.	
<b>Conditions to Avoid:</b>	Incompatible materials, ignition sources.	
Incompatibilities with		
Other Materials	Ignition sources, acids, acid chlorides, acid anhydrides.	
Hazardous Decomposition		
Products	Carbon monoxide, carbon dioxide.	
Hazardous Polymerization	Will not occur.	

#### Section 11 - Toxicological Information

RTECS#:CAS# 78-92-2: EO1750000LD50/LC50:RTECS:CAS# 78-92-2:Inhalation, rat: LC50 = 48500 mg/m3/4H;Oral, rabbit:LD50 = 4893 mg/kg;Oral, rabbit:LD50 = 4900 mg/kg;Oral, rat:LD50 = 2193 mg/kg;Oral, rat:LD50 = 6200 mg/kg;Skin, rat:LD50 = >2 gm/kg;Other:Skin, rat:LD50 > 2000 mg/kgCarcinogenicity:sec-Butanol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.Other:See actual entry in RTECS for complete information. Mutagenicity: Ames-test: negative.

#### Section 12 - Ecological Information

**Ecotoxicity:** Fish: Fathead Minnow: LC50: 3670 mg/L; 96h; . Daphnia: Daphnia: EC50: 3750 mg/L; 24h; . Bacteria: Pseudomonas putida: EC50: 500 mg/L; 16h; .

**Other:** Log POW: 0.61

# Readily biodegradable.

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

Shipping Name:	BUTANOLS	BUTANOLS	BUTANOLS
Hazard Class:	3	3	3
UN Number:	1120	1120	1120
Packing Group:	III	III	III

### **Section 15 - Regulatory Information**



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Frondet Code35723European/International RegulationsEuropean Labeling in Accordance with EC DirectivesHazard Symbols: XIRisk Phrases:R 10 Flammable.R 36/37 Irritating to eyes and respiratory system.R 67 Vapours may cause drowsiness and dizziness.Safety Phrases:S 7/9 Keep container tightly closed and in a well-ventilated place.S 13 Keep away from food, drink and animal feeding stuffs.S 24/25 Avoid contact with skin and eyes.S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 46 If swallowed, seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 78-92-2: 1 Canada CAS# 78-92-2 is listed on Canada's DSL List **US Federal** TSCA

CAS# 78-92-2 is listed on the TSCA Inventory.

#### **Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.