



## Section 1 - Chemical Product and Company Identification

**Product Name** n-Butyl Alcohol (1-butanol, n-butanol) extrapure AR, ACS, ExiPlus, Multi-Compendial, 99.5%  
**Product Code** 15612  
**CAS No** 71-36-3  
**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#
71-36-3	n-Butyl Alcohol	<=100	200-751-6

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Flammable. Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.

#### Potential Health Effects

**Eye:** May result in corneal injury. May cause eye irritation and possible damage. Risk of serious damage to eyes.  
**Skin:** Causes skin irritation. May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.  
**Ingestion:** Harmful if swallowed. Aspiration hazard. May cause irritation of the digestive tract. May cause liver damage. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.  
**Inhalation:** May cause 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:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures



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**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, 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. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical 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. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.

**Storage:** Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

## 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 explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits** CAS# 71-36-3:  
United Kingdom, WEL - STEL: 50 ppm STEL; 154 mg/m<sup>3</sup> STEL  
United States OSHA: 100 ppm TWA; 300 mg/m<sup>3</sup> TWA  
Belgium - TWA: 50 ppm VLE; 154 mg/m<sup>3</sup> VLE  
France - VLE: 50 ppm VLE; 150 mg/m<sup>3</sup> VLE  
Germany: 100 ppm TWA; 310 mg/m<sup>3</sup> TWA  
Japan: 50 ppm Ceiling; 150 mg/m<sup>3</sup> Ceiling  
Malaysia: 50 ppm Ceiling; 152 mg/m<sup>3</sup> Ceiling  
Netherlands: 15 ppm STEL; 45 mg/m<sup>3</sup> STEL  
Russia: 1 mg/m<sup>3</sup> TWA (aerosol); 10 mg/m<sup>3</sup> TWA (vapour) Russia: 3 mg/m<sup>3</sup> STEL (aerosol)  
Spain: 50 ppm VLA-EC; 154 mg/m<sup>3</sup> VLA-EC

## Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** 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: Liquid  
Specific Gravity/Density: 0.808-0.810  
Boiling Point: 116-118 deg C @760mmHg ( 243.68°F)  
Molecular Formula: C<sub>4</sub>H<sub>10</sub>O  
Molecular Weight: 74.12  
Flash Point: 35°C / 95°F CC (closed cup)

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** High temperatures, incompatible materials, ignition sources.

### Incompatibilities with

**Other Materials :** Strong oxidizing agents, reducing agents, acid chlorides, aluminum, copper, copper alloys, organic peroxides, acid anhydrides, chromium trioxide.

### Hazardous Decomposition

**Products :** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization :** Will not occur.

## Section 11 - Toxicological Information



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**RTECS#:** CAS# 71-36-3: EO1400000

**LD50/LC50:** RTECS: **CAS# 71-36-3:**

Draize test, rabbit, eye: 2 mg Severe;  
 Draize test, rabbit, eye: 2 mg/24H Severe;  
 Draize test, rabbit, skin: 405 mg/24H Moderate;  
 Draize test, rabbit, skin: 20 mg/24H Moderate;  
 Inhalation, rat: LC50 = 8000 ppm/4H;  
 Inhalation, rat: LC50 = 24000 mg/m<sup>3</sup>/4H;  
 Oral, mouse: LD50 = 100 mg/kg;  
 Oral, rabbit: LD50 = 3484 mg/kg;  
 Oral, rabbit: LD50 = 3400 mg/kg;  
 Oral, rat: LD50 = 790 mg/kg;  
 Oral, rat: LD50 = 800 mg/kg;  
 Skin, rabbit: LD50 = 3400 mg/kg;

**Carcinogenicity:** 1-Butanol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Fathead Minnow: LC50: 1940 mg/l; 1h; .

Daphnia: Daphnia: LC50: 1983 mg/l; 48h; .

**Other:** In water, substance volatilizes and biodegrades.  
 Biodegradable. Do not empty into drains. Log Pow: 0.9

## Section 13 - Disposal Considerations

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

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Butanols	Butanols	Butanols
<b>Hazard Class:</b>	3	3	
<b>UN Number:</b>	1120	1120	1120
<b>Packing Group:</b>	III	III	III

## Section 15 - Regulatory Information



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### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases: R 10 Flammable.R 22 Harmful if swallowed.R 37/38 Irritating to respiratory system and skin.R 41 Risk of serious damage to eyes.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 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S 37/39 Wear suitable gloves and eye/face protection.S 46 If swallowed, seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)CAS# 71-36-3: 1

Canada CAS# 71-36-3 is listed on Canada's DSL List

#### US Federal

TSCA CAS# 71-36-3 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.