

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

## Section 1: IDENTIFICATION

Product Name: **Butyl Alcohol (n-Butyl Alcohol), Natural**  
 Product Number: **0217800**  
 Recommended Use: **Flavorings**

Manufacturer: **Aurochemicals**  
 7 Nicoll Street  
 Washingtonville, NY 10992 – USA  
 845-496-6065  
 845-496-6248 Fax

Emergency Telephone No.: 1-800-535-5053

## Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards **Flammable Liquid, Target Organ Effect, Harmful by ingestion, Irritant**

Target Organs **Central nervous system, ears, liver, kidney, blood**

GHS Classification **Flammable Liquids (Category 3)  
 Acute toxicity, Oral (Category 4)  
 Acute toxicity, Inhalation (Category 5)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity-single exposure (Category 3)**

GHS Label elements, including precautionary statement

Pictogram or written description



Signal Word: **WARNING**

Hazard Statement: **H226 Flammable liquid and vapor  
 H302 Harmful if swallowed  
 H313+ May be harmful in contact with skin  
 H333 May be harmful if inhaled  
 H315 Causes skin irritation  
 H319 Causes serious eye irritation  
 H335+ May cause respiratory irritation  
 H336 May cause drowsiness or dizziness**

Precautionary Statement **P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
 P305+ IF IN EYES: Rinse cautiously with water for several minutes  
 P351+ Remove contact lenses, if present and easy to do.  
 P338 Continue rinsing**

# Safety Data Sheet

## HMIS Classification

Health Hazard	2
Chronic Health Hazard	*
Flammability	3
Physical Hazards	0

## Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Skin	Harmful if absorbed through skin. Causes skin irritation
Eyes	Causes eye irritation
Ingestion	Harmful if swallowed

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	n-Butanol
Common Name:	Butyl Alcohol
Synonyms:	Butanol – N-Butanol – 1 Butyl Alcohol
CAS #	71-36-3
EC#	200-751-6
EC Index-No.:	603-004-00-6
Impurities and Stabilizing additives	
Molecular Formula	C <sub>4</sub> H <sub>10</sub> O

## Section 4: FIRST AID MEASURES

General Advice	Consult a physician. Show this safety data sheet to the physician in attendance. Move out of dangerous area.
If inhaled	Move to fresh air, consult a physician
In case of skin contact	Remove contaminated clothing, rinse with cool water than wash with warm water and mild soap, and consult a physician
In case of eye contact	Rinse thoroughly with plenty of water for 15 minutes and consult a physician.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Clothing	Remove contaminated clothing and wash thoroughly before reuse.

## Section 5: FIREFIGHTING MEASURES

Conditions of flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide.
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary.

## Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas
HazMat Team:	Wear self contained breathing apparatus, rubber boots and heavy rubber gloves.
Absorb spills:	Cover spill with absorbent, take it up and place in closed container for removal according to local regulations.
Ventilate area	Ventilate area and wash spill site.

## Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters				
Components	CAS-No.	Value	Control Parameters	Basis
n-Butanol	71-36-3	TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks : Eye and Upper Respiratory Tract Irritation				
		C	50 ppm 150 mg/m <sup>3</sup>	USA. OSHA-Table Z-1 Limits for Air Contaminants-1910.1000
Skin notation				
		TWA	100 ppm 300 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
The value in mg/m <sup>3</sup> is approximate				
		C	50 ppm 150 mg/m <sup>3</sup>	USA. NIOSH Recommended exposure Limits
Potential for dermal absorption				

Personal Protective Equipment	<b>These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario</b>
Respiratory protection	Where risk assessment shows air purifying respirators are appropriate, use a full face respirator with multi-purpose cartridges as a back up to engineering controls. NIOSH approved.
Hand protection	Wear Nitrile (Chemically resistant) rubber gloves when handling this product.
Eye protection	Face shield and safety glasses approved by NIOSH should be worn
Skin and Body protection	Complete suit protecting against chemicals made of flame retardant antistatic material should be selected according to the concentration and amount of the dangerous

substance at the specific worksite.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Clear, Colorless
Odor:	Slight Whiskey
pH Value @ 10 g/l H <sub>2</sub> O	(20°C) 7
Boiling Point:	118°C
Flashpoint:	35°C
Melting Point:	-90°C
Specific Gravity 25°C:	0.807 - 0.817
Explosive Properties:	No information available
Lower explosion limit:	1.4 Vol%
Upper explosion limit:	11.2 Vol%
Ignition temperature:	340°C
Oxidizing properties:	Not Oxidizing; Flammable
Vapor Pressure:	5 hPa (4 mmHg) at 20°C (68°F)
Solubility	Soluble in alcohol, ether, other organic solvents, 1mL in 15mL water

## Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reaction	Vapors may form explosive mixture with air.
Conditions to be avoided:	Heat, Flames, and sparks
Materials to avoid	Oxidizing agents, Alkali metals, Bases, Strong acids, Halogens
Hazardous decomposition products	Formed under fire conditions-Carbon oxides

## Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
Oral LD <sub>50</sub> –Rat	790 mg/kg Remarks: Liver, fatty liver degeneration, Kidney, Ureter, Bladder: Other changes, Blood, other changes
Inhalation LC <sub>50</sub> –Rat	8000 ppm 4 h
Dermal LD <sub>50</sub> - Rabbit	3,400 mg/kg
Skin corrosion/irritation	Rabbit: Skin irritation -24 hr
Serious eye damage/eye irritation	Rabbit: Eye irritation
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	No components of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

	NTP	No components of this product, present at levels greater than or equal to 0.1% is identified as a know or anticipated carcinogen by NTP
	OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA
Reproductive Toxicity		No data available
Teratogenicity		No data available
Specific target organ toxicity-Single Exposure (GHS)		May cause respiratory irritation. May cause drowsiness or dizziness
Specific target organ toxicity-Repeated Exposure (GHS)		No data available
Aspiration hazard		No data available
Potential health effects	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness
	Ingestion	Harmful if swallowed
	Skin	Harmful if absorbed through skin. Causes skin irritation
	Eyes	Causes eye irritation
Signs and symptoms of exposure		Drying, cracking of the skin, skin irritation
Synergistic effects		No data available
RTECS		EQ1400000
Additional Information:		<i>Only a selected registry of toxic effects of chemical substances (RTECS) is presented here. See actual entry in RTECS for complete information</i>

## Section 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50-Pimephales promelas (fathead minnow) 1,840 mg/l – 96
Toxicity to daphnia and other aquatic invertebrates	EC50-Daphnia magna (Water Flea) 1,983 mg/l – 48 hr
Persistence and degradability	
Bioaccumulation	Oncorhynchus my kiss (rainbow trout) 24 h
Mobility in Soil	No data available
PBT and vPvB assessment	No data available
Other adverse effects	No data available

## Section 13: DISPOSAL CONSIDERATIONS

Product:	According to official local regulations
Packing:	According to official local regulations

## Section 14: TRANSPORT INFORMATION

DOT (US)	UN-1120 Class 3, Packing Group III
Proper shipping name	Butanols
Reportable Quantity (RQ)	5000 lbs
Marine Pollutant	No

# Safety Data Sheet

Poison inhalation hazard	No
<b>IMDG</b>	UN-1120 Class 3, Packing Group III
Proper shipping name	BUTANOLS EMS-No. F-E, S-D
Marine Pollutant	No
<b>IATA</b>	UN-1120 Class 3, Packing Group III
Proper shipping name	Butanols

## Section 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquid, Target Organ Effect, Harmful by ingestion, Irritant		
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302		
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313:		
	• n-Butanol	CAS# 71-36-3	Rev. Date: 1/7/2007
SARA 311/312 Hazards	Fire Hazard, Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right to Know Components	n-Butanol	CAS# 71-36-3	Rev. Date: 1/7/2007
Pennsylvania Right to Know Components	n-Butanol	CAS# 71-36-3	Rev. Date: 1/7/2007
New Jersey Right to Know Components	n-Butanol	CAS# 71-36-3	Rev. Date: 1/7/2007
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

## Section 16: OTHER INFORMATION

Aurochemicals 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. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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