

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/01/2018 Revision date: 11/01/2018 Supersedes: 11/09/2015

ECULIN	Date	of issue: 11/01/2018	Revision date: 11/01/2018	Supersedes: 11/09/2015	Version: 1.2
SECTION 1: Identifica	ation				
1.1. Identification					
Product form		: Substance			
Substance name		: N. Butyl Alcoh	nol		
CAS-No.		: 71-36-3			
Formula		: C4H10O			
Synonyms		: 1-butanol / 1-l n-butanol	outyl alcohol / 1-hydroxy butan	e / alcohol C4 / butan-1-ol / bu	utanol / butyl alcohol /
1.2. Recommended u	ise and restriction	ons on use			
Use of the substance/mixtur	e	: Solvent			
Restrictions on use		: None known			
1.3. Supplier					
<u>ECOLINK</u>					
2177 Flintstone Dr.					
Suite A					
Tucker, GA 30084					
770-621-8240(t)					
www.ecolink.com					
1.4. Emergency telep	hone number				
Emergency number		: INFOTRAC 8	00-535-5053		
SECTION 2: Hazard(s	s) identificati	on			
2.1. Classification of	the substance of	or mixture			
GHS-US classification					
Flammable liquids	H226	Flamr	nable liquid and vapor		
Category 3					
Acute toxicity (oral)	H302	Harm	rul IT Swallowed		
Skin corrosion/irritation	H315	Cause	es skin irritation		
Category 2	11040	0			
Serious eye damage/eye	H318	Cause	es serious eye damage		
Specific target organ	H335	May c	ause respiratory irritation		
toxicity (single exposure)					
Category 3 Specific target organ toxicity (single exposure) Category 3	H336	May c	ause drowsiness or dizziness		
Full text of H statements : se	ee section 16				
2.2. GHS Label eleme	ents, including p	precautionary statem	ients		
GHS-US labeling					
	0)				

Hazard pictograms (GHS-US)

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)



: Danger

:

- H226 Flammable liquid and vapour
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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	P233 - Keep container tightly closed.	
	P240 - Ground/Bond container and receiving equipment	
	P241 - Use explosion-proof electrical, lighting, ventilating equipment	
	P242 - Use only non-sparking tools.	
	P243 - Take precautionary measures against static discharge.	
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.	
	P264 - Wash Skin thoroughly after handling.	
	P270 - Do not eat, drink or smoke when using this product.	
	P271 - Use only outdoors or in a well-ventilated area.	
	P280 - Wear protective gloves, eye protection, face protection.	
	P301+P312 - If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell	
	P302+P352 - If on skin: Wash with plenty of water	
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Ring	se
	skin with water/shower	
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing	
	P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove cor	ntact
	lenses, if present and easy to do. Continue rinsing	
	P310 - Immediately call a poison center or doctor	
	P312 - Call a poison center or doctor if you feel unwell	
	P321 - Specific treatment (see supplemental first aid instruction on this safety data sheet) P330 - Rinse mouth.	
	P332+P313 - If skin irritation occurs: Get medical advice/attention.	
	P362+P364 - Take off contaminated clothing and wash it before reuse.	
	P370+P378 - In case of fire: Use alcohol resistant foam, water fog, foam, dry chemical or	
	carbon dioxide (CO2) to extinguish.	
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.	
	P403+P235 - Store in a well-ventilated place. Keep cool.	
	P405 - Store locked up.	
	P501 - Dispose of contents/container in accordance with local, regional, national, and/or	
	international regulations.	
23	Other hazards which do not result in classification	

2.3.	Other hazards which do not resu	It in classification
Other ha	azards not contributing to the ation	: No additional information available.

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. **Substances**

Substance type

: Mono-constituent

Name	Product identifier	%	GHS-US classification
N. Butanol (Main constituent)	(CAS-No.) 71-36-3	99.8	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures		
Not applicable		
SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.	
First-aid measures after inhalation	: Remove to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen provided a qualified individual is present. Get medical assistance if symptoms persist.	
First-aid measures after skin contact	: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse or discard if they cannot be thoroughly cleaned. Get medical assistance if irritation persists.	
First-aid measures after eye contact	<ul> <li>Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Get immediate medical attention.</li> </ul>	
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If victim is conscious and alert, rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.	
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4.2. Immediate medical attention and special treatment, if necessary

Treat symptomatically and supportively.

Vapors have narcotics effect and may cause headache, fatigue, dizziness and nausea.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	ng media
Suitable extinguishing media	: Use dry chemical or carbon dioxide for small fires, and alcohol resistant foam or water fog for large fires.
Unsuitable extinguishing media	: Water may be ineffective in fighting the fire, as material is lighter and could float on water and spread fire.
5.2. Specific hazards arising from the che	mical
Fire hazard	: Flammable liquid and vapor. Gas/vapor flammable with air within explosion limits. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Vapors may form explosive mixture with air. Prevent buildup of vapor or gases to explosive concentrations.
Reactivity	: Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent exothermic reaction with (some) acids. Violent to explosive reaction with (some) halogens.
5.3. Special protective equipment and pre	cautions for fire-fighters
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighborhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION & Accidental release measu	
SECTION 0. ACCIDENTAL TELEASE ITEAS	
6.1. Personal precautions, protective equ	Avoid contact with skin, eves and clothing. Avoid breathing vapors, mist or gas. Ensure
	adequate ventilation. Keep unnecessary personnel away. Remove all sources of ignition. Wear personal protection equipment.
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent spreading in sewers. Do not let product en	nter drains, sewers or streams.
6.3. Methods and material for containment	it and cleaning up
For containment	: Absorb with inert materials and place into appropriate containers for disposal. For large spills, flush area with water spray to disperse vapors and dilute spill to a nonflammable mixture.
Methods for cleaning up	: Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite, kieselguhr, powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Use spark-/explosionproof appliances and lighting system. Use earthed equipment. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
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7.2.	Conditions for safe storage	, including any incompatibilities
Tech	nical measures	: Ground/bond container and receiving equipment.
Stora	ge conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Stora	ge temperature	: < 30 °C
Heat-	ignition	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Inforn	nation on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. halogens.
Stora	ge area	: Store in a dry area. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Provide for a tub to collect spills. Provide the tank with earthing. Store only in a limited quantity.
Speci	ial rules on packaging	<ul> <li>SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.</li> </ul>
Packa	aging materials	<ul> <li>SUITABLE MATERIAL: steel. stainless steel. monel steel. iron. copper. bronze. polypropylene.</li> <li>dass. MATERIAL TO AVOID: auminum. PVC.</li> </ul>

## **SECTION 8: Exposure controls/personal protection**

8.1. Control	parameters	
N. Butyl Alcoho	l (71-36-3)	
ACGIH	Local name	n-Butanol
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m³)	300 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station to keep airborne concentrations low. An emergency eye wash / shower must be readily accessible to the work area.

Environmental exposure controls

: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

### Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: butyl rubber. polyethylene/ethylenevinylalcohol. viton.

GIVE GOOD RESISTANCE: nitrile rubber.

GIVE LESS RESISTANCE: nitrile rubber. PVA. PVC.

GIVE POOR RESISTANCE: natural rubber. polyethylene

### Hand protection:

Gloves - Wear appropriate protective gloves and clothing to prevent skin exposure.

### Eye protection:

Face shield – Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

### Skin and body protection:

Protective clothing

### **Respiratory protection:**

Full face mask with filter type A at conc. in air > exposure limit

SECTION 9: Physical and chemical properties		
9.1. Information on basi	sic physical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Colorless	
Odor	: Alcohol odor	
Odor threshold	: 0.83 ppm	

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pH	: No data available
Melting point / Freezing point	: <-89 °C
Freezing point	: No data available
Boiling point	: 118 °C
Flash point	: 36 °C
Relative evaporation rate (butyl acetate=1)	: 0.5
Flammability / Explosive limits	: 1.5 – 11.3% (V)
Vapor pressure	: 4.4 mmHg
Relative vapor density at 20 °C	: 2.56
Relative density (water)	: 0.81
Specific gravity / density	: 810 kg/m³
Molecular mass	: 74.12 g/mol
Solubility	: Moderately soluble in water.
Log Pow	: 0.88
Auto-ignition temperature	: 343 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 3.642 mm²/s
Viscosity, dynamic	: 2.95 mPa.s
Explosion limits	: 43 - 350 g/m <sup>3</sup>
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
VOC content	: 100 %
<b>SECTION 10: Stability and reactivit</b>	У
10.1. Reactivity	
Stable at normal ambient temperature and pres	ssure.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
Oxidizing materials can cause a vigorous react	ion. Polymerization will not occur.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No flame	es, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition product	ts
Oradi e a cultura	

Carbon oxides.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Oral: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
N. Butyl Alcohol (71-36-3)		
LD50 oral rat	2292 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)	
LD50 dermal rabbit	3430 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)	
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	3430 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye damage.	

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Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity Specific target organ toxicity – single exposure	: Not classified : May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard Viscosity, kinematic	: Not classified : 3.642 mm²/s
Symptoms/effects	: May cause drowsiness or dizziness.

<b>SECTION 12: Ecological information</b>			
12.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
Ecology - water	: Not harmful to crustacea. Not harmful to fishes. Groundwater pollutant. Nitrification of activated sludge isn't inhibited. Slightly harmful to algae. Not harmful to bacteria.		
N. Butyl Alcohol (71-36-3)			
LC50 fish 1	1376 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP)		
EC50 Daphnia 1	1328 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)		

## 12.2. Persistence and degradability

N. Butyl Alcohol (71-36-3)		
Persistence and degradability	Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.1 - 1.92 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD) 2.46 g O <sub>2</sub> /g substance		
ThOD	2.59 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.33 - 0.79	

12.3. Bioaccumulative potential			
N. Butyl Alcohol (71-36-3)			
BCF other aquatic organisms 1	3.16 (BCFWIN, Calculated value)		
Log Pow	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).		

## 12.4. Mobility in soil

N. Butyl Alcohol (71-36-3)		
Surface tension	0.07 N/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)	
Log Koc	0.388 (log Koc, PCKOCWIN v1.66, Calculated value)	
Ecology - soil	Highly mobile in soil. May be harmful to plant growth, blooming and fruit formation.	

## 12.5. Other adverse effects

No additional information available

SECTI	ON 13: Disposal consideration	S
13.1.	Disposal methods	
Waste tre	eatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Product/Packaging disposal recommendations	:	Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.
Additional information	:	Flammable vapors may accumulate in the container.

## **SECTION 14: Transport information**

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

Department of Transportation (DOT) In accordance with DOT		
Transport document description	:	UN1120 Butanols (When shipping in quantities greater than 5,000 lbs, RQ must be added to the shipping
		description.), 3, III
UN-No.(DOT)	:	UN1120
Proper Shipping Name (DOT)	:	Butanols
		When shipping in quantities greater than 5,000 lbs, RQ must be added to the shipping description.
Class (DOT)	:	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	:	III - Minor Danger
Hazard labels (DOT)	:	3 - Flammable liquid
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	203
DOT Packaging Bulk (49 CFR 173.xxx)	:	
DOT Special Provisions (49 CFR 172.102)		B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	:	No supplementary information available.
Transportation of Dangerous Goods		
Transport by sea		
Transport document description (IMDG) UN-No. (IMDG)	:	UN 1120 Butanols, 3, III 1120

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Proper Shipping Name (IMDG)	: Butanols
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
EmS-No. (1)	: F-E
EmS-No. (2)	: S-D
Air transport	
Transport document description (IATA)	: UN 1120 Butanols, 3, III
UN-No. (IATA)	: 1120
Proper Shipping Name (IATA)	: Butanols
Class (IATA)	: 3 - Flammable Liquids

Packing group (IATA) : III - Minor Danger

BECTION 15. Regulatory mormation			
15.1. US Federal regulations			
N. Butyl Alcohol (71-36-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313			
CERCLA RQ	5000 lb		
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Physical hazard - Flammable (gases, aerosols, liquids, or solids)		

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

n-Butanol	CAS-No. 71-36-3	100%

### 15.2. International regulations

CANADA

No additional information available

**EU-Regulations** No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

N. Butyl Alcohol (71-36-3)		
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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## Full text of H-phrases:

	•			
	H226	Flammable liquid and vapour		
	H302	Harmful if swallowed		
	H315	Causes skin irritation		
	H318	Causes serious eye damage		
	H335	May cause respiratory irritation		
	H336	May cause drowsiness or dizziness		
NF	PA health hazard	: 2 – Materials that under emergency conditions, can cause termporary incapacitation or residual injury.		
NFF	PA fire hazard	: 3 – Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.		
NF	PA reactivity	: 0 – Material that in themselves are normally stable, even under fire conditions.		

#### SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Please be advised revisions to the Safety Data Sheet (SDS) may require a label update. In no event shall ECOLINK be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ECOLINK has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this SDS and its contents from that originally submitted by ECOLINK.