ESSENTIAL CHEMISTRY. INNOVATIVE SOLUTIONS.

SAFETY DATA SHEET

Print Date: March 19, 2025

Section 1: Product & Company Information

Product Identifier: **N Butyl Alcohol**

Other Means of Identification

Product Number: 151013
102015

Recommended Use and Restrictions on Use

Recommended Use: For industrial use only.
Restrictions on Use: No data available.

Manufacturer / Importer / Supplier / Distributor Information

Company Name: CORECHEM Inc.
Address: 4320 Greenway Drive
Knoxville, TN 37918 USA

Information Telephone Number: 1-865-524-4239
Fax Number: 1-865-524-3375
Website: www.corecheminc.com
Contact Person: Regulatory Manager
E-mail: regulatory@corecheminc.com
Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 *(monitored 24 hours/day)*

Section 2: Hazards Identification

GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Physical Hazard(s)

Flammable, Liquids - 3

Health Hazard(s)

Acute Toxicity, Oral - 4
Corrosion/Irritation, Skin - 2
(Corrosion)Damage/Irritation, Eye - 1
Specific Target Organ Toxicity (STOT)-CNS, Single exposure - 3
Specific Target Organ Toxicity (STOT)-Respiratory Irritation, Single exposure - 3

Environmental Hazard(s)

Not classified.

Label Elements

Signal Word

DANGER

Hazard Symbol(s)

Hazard Statement(s)

H226: Flammable liquid and vapor.
H302: Harmful if swallowed.
H315: Causes skin Irritation.
H318: Causes serious eye damage.
H335: May cause respiratory Irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statements

General

Not applicable.

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/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 face, hands and any exposed 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/protective clothing/eye protection/face protection.

Response

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P313: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see supplemental first aid instructions on this label).
P330: Rinse mouth.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

Storage

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.

Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC)

No data available.

Section 3: Composition/Information on Ingredients

Substance

Chemical Identity [2]	Common Name/Synonym(s)	CAS # [3]	Weight %	Impurity or Stabilizing Additive
n-Butyl Alcohol	n-Butanol	71-36-3	100%	No

1. Information regarding the composition and the percentage ranges of the mixtures ingredients are not presented as its Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
3. "— "Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

Section 4: First-Aid Measures

General Information

Call a poison center/doctor/physician if you feel unwell.

Inhalation

If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or if the victim feels unwell, seek medical attention.

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 it cannot be thoroughly cleaned. Get medical assistance if irritation persists.

Eye Contact

Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Ingestion

Rinse mouth with water if the victim is conscious. Remove dentures if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of vomitous into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

Most important symptoms/effects, acute and delayed

Symptoms

Eyes: Causes severe eye irritation, chemical burns and eye damage. Symptoms include inflammation, tearing, pain, light sensitivity, burns and pain. Prolonged eye contact may cause corneal injury and permanent impairment of vision. Vapor or mist can cause eye irritation.

Skin: Harmful if absorbed through the skin. Causes skin irritation with localized redness, itching and discomfort. Prolonged contact with unprotected skin may cause defatting of the skin and dermatitis.

Inhalation: May be harmful if inhaled. Causes irritation of the respiratory system. May cause cardiovascular disturbances, hearing abnormalities,
central nervous system depression, drowsiness or dizziness, muscle weakness and possible death due to respiratory failure. May be absorbed through the lungs.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract with nausea, vomiting, abdominal pain and diarrhea. May damage the
liver, kidneys, ureters and bladder. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness,
drowsiness and nausea. May cause collapse, unconsciousness, coma and possible death due to respiratory failure. Aspiration of this material during swallowing or vomiting may lead to lung damage or death due to chemical pneumonia.

Chronic: Individuals with pre-existing skin conditions and respiratory disorders may be more susceptible to the effects of this product. Prolonged
or repeated skin contact may cause defatting of the skin and dermatitis or aggravate existing skin conditions. May cause damage to the auditory
nerve, possibly causing some hearing loss, and vestibular injury. Chronic exposure may affect the central nervous system and liver.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Treat symptomatically.

Section 5: Fire-Fighting Measures

General Fire Hazards

Flammable liquid and vapor.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

Use dry chemical or carbon dioxide for small fires, and alcohol resistant foam for large fires.

Unsuitable Extinguishing Media

Water may be ineffective in fighting fire.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Avoid sources of ignition. Vapors may form an explosive mixture with air, especially in confined spaces. Ground and bond containers in storage and when container is in use.

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

No data available.

Special Protective Equipment for Fire-Fighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing. (Includes firefighting helmet, coat, trousers, boots, and gloves.) Avoid contact with this material during firefighting operations. If contact is likely change to a full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Keep unnecessary personnel away. Remove all sources of ignition. Wear personnel protective equipment. NO SMOKING. Clean up spills immediately. Spill creates a slip hazard.

Methods and Materials for Containment and Clean-Up

Approach the spill from upwind direction. DO NOT flush spill down the drain. Cover drains and contain the spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tolls and place it into an approved container for proper disposal. Observe possible material restrictions. Do not allow material or runoff from rinsing contaminated areas to enter floor drains.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements..

Section 7: Handling and Storage

Precautions for Safe Handling

Wear all the appropriate personal protection equipment specified in section 8. DO not get in eyes or on skin or clothing. Do not inhale mist or vapor. NO SMOKING. If normal use of material presents a respiratory hazard use only adequate ventilation or wear adequate respirator. Open containers slowly to control possible pressure release. Wash contaminated clothing before reuse.

Advice on protection against fire and explosion:

Keep away from heat and sources of ignition. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Conditions for Safe Storage, including any Incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residues. Do not cut, drill, weld, braze, solder grind or perform similar operations on or near empty containers. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
n-Butyl Alcohol	TWA	100 ppm	US. ACGIH Threshold Limit Values
n-Butyl Alcohol	TWA	50 ppm	NIOSH
n-Butyl Alcohol	TWA	150 mg/m^3	NIOSH
n-Butyl Alcohol	IDLH	1400 ppm	NIOSH
n-Butyl Alcohol	TWA	300 mg/m^3	US. ACGIH Threshold Limit Values
n-Butyl Alcohol	TWA	6 mg/m^3	US OSHA Table Z-1
n-Butyl Alcohol	TWA	20 ppm	US OSHA Table Z-1

Biological Limit Values

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

Engineering Controls:

Ensure good ventilation of the workstation to keep airborne concentrations low. An emergency eyewash/shower must be readily accessible to the work area.

Individual protection measures, such as personal protective equipment (PPE)

General Information

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/Face Protection

Wear safety glasses with side shields.

Skin Protection

Hand Protection

Wear chemical resistant gloves.

Other

Use protective clothing chemically resistant to this material.

Respiratory Protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limits requirements or guidelines, use an approved respirator. Selection of air purifying or positive pressure supplied- air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive- pressure self-contained breathing apparatus. The following should be effective types of air purifying respirators: Organic vapor cartridges.

Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:	
Physical State:	Liquid
Color:	Clear, Colorless
Odor:	Alcohol
Odor Threshold:	0.83 ppm
pH:	No data available
Melting Point/Freezing Point:	-86°C (-128.2 °F)
Initial Boiling Point and Boiling Range:	118 °C
Flash Point:	36°C (Closed Cup)
Specific Gravity	810 kg/m^3
Evaporation Rate (butyl acetate=1)**:**	0.5
Flammability (solid, gas):	No data available
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper:	No data available
Flammability Limit – Lower:	No data available
Explosive Limit – Upper:	11.3% v
Explosive Limit – Lower:	1.5% v
Vapor Pressure:	7.3 hPa
Vapor Density (air =1)**:**	2.6
Relative Density (water=1)**:**	0.81 (20 °C) 4 °C
Solubility(ies):	
Solubility in water:	Miscible
Solubility (other):	No data available
Partition coefficient (n-octanol/water):	Log Pow: 0.88
Auto-Ignition Temperature:	420 °C
Decomposition Temperature:	No data available
Viscosity:	No data available
Dynamic Viscosity:	No data available
Oxidizing properties:	No
Liquid Density:	No data available
Percent volatility:	No data available
Surface tension:	No data available
Other Information:	
Molecular Weight:	74.12 g/mol
Formula:	$C_4H_{10}O$

Section 10: Stability and Reactivity

Reactivity

Stable at normal ambient temperature and pressure.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

Oxidizing materials can cause a vigorous reaction. Polymerization will not occur.

Conditions to Avoid

Avoid contact with hot surfaces. Heat, no flames no sparks. Eliminate all sources of ignition.

Incompatible Materials

Strong oxidizers.

Hazardous Decomposition Products

Carbon Oxides.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: No data available
Inhalation: No data available
Skin Contact: Causes skin irritation.
Eye Contact: Causes severe eye irritation and serious eye damage.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

n-Butyl Alcohol: LD50 (Rat): 790 mg/kg

Dermal

n-Butyl Alcohol: LD50 (Rabbit) male: 5620 mg/kg

Inhalation

n-butyl Alcohol: LC50(Rat, male and female) > 17.9 mg/l

Repeated Dose Toxicity

No data available.

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/Eye Irritation

Causes severe eye irritation and serious eye damage.

Respiratory/Skin Sensitization

No data available.

Carcinogenicity

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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.

Germ Cell Mutagenicity

In Vitro

No data available.

In Vivo

No data available.

Reproductive Toxicity

No data available.

Specific Target Organ Toxicity – Single Exposure

May cause respiratory irritation, drowsiness, and dizziness.

Specific Target Organ Toxicity – Repeated Exposure

No data available.

Aspiration Hazard

No data available.

Teratogenicity

No data available.

Other Effects

None known.

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

n-Butyl Alcohol: LC-50 (Fathead Minnow, 96 h): 1,376 mg/l

n-Butyl Alcohol: LC50 - Pimephales promelas (Fathead minnow), static test 96 h: 1,376 mg/l

Aquatic Invertebrates

n-Butyl Alcohol: EC50 (Water Flea (Daphnia magna), 24 h): 1,328 mg/l Mortality

n-Butyl Alcohol: EC50 - Daphnia magna (Water flea), 24 h: 1,328 mg/l

Toxicity to Aquatic Plants

n-Butyl Alcohol: ErC50 (Pseudokirchneriella subcapitata (Green algae) 225 mg/L

ErC50 - Pseudokirchneriella subcapitata (Green algae), static test, 96 h: 225 mg/l

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and Degradability

Biodegradation

Material is readily biodegradable.

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

This material will not bioaccumulate.

Partition Coefficient n-octanol / water (log Kow)

1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water) HPLC method, 25 °C)

Mobility in Soil

No data available.

Other Adverse Effects

No data available.

Section 13: Disposal Considerations

Disposal Instructions

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Contaminated Packaging

Handle contaminated packages in the same way as the substance itself. Follow label warnings until container is thoroughly cleaned or destroyed.

US Department of Transportation (DOT)

UN Number:	UN1120
UN Proper Shipping Name:	Butanol's
Technical Name:	-
Hazard Class:	3
Subsidiary Hazard Risk:	-
Packing Group:	III
DOT Label/Placard Exemptions:	Not determined
Special Provisions:	B1, IB3, T2, TP1
Packaging Exceptions:	49CFR 173.150
Packaging Non-Bulk:	49CFR 173.203
Packaging Bulk:	49CFR 173.242
Reportable Quantity (RQ):	5,000lb (2,270kg)
Marine Pollutant:	No
Poison Inhalation Hazard:	No
Special precautions for user:	Transport within the user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Emergency Response Guidebook (ERG) #:	129

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Section 15: Regulatory Information

US Federal Regulations

Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

The following chemical(s) in this material are subject to reporting levels established by CERCLA:

n-Butyl Alcohol (CAS# 71-36-3)

Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

Emergency Planning and Community Right-To-Know Act (EPCRA)

EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard:	Yes
Sudden Release of Pressure:	No
Reactive:	No
Acute (Immediate) Health Hazard:	Yes
Chronic (Delayed) Health Hazard:	No

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

The following chemical(s) in this material are subject to reporting levels established by SARA Title III, Section 313:

n-Butyl Alcohol (CAS# 71-36-3)

US State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 3
Chronic Health Hazard: /
Flammability: 2
Physical Hazard: 0
Personal Protection: C
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 3
Fire Hazard: 2
Reactivity Hazard: 0
Special: N/A
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

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Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
EC50 - Effective concentration, 50%
IDHL – Immediately Dangerous to Life and Health
Kg – Kilogram
l – Liter
lb – Pound
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
mg - milligram
ml – milliliter
N/A – Not Applicable
N/D – Not Determined
PEL – Permissible Exposure Limit
REL – Recommended Exposure Limit
STEL – Short-term Exposure Limit
TWA - Time weighted average
ACGIH - American Conference of Industrial Hygienists
AIHA – American Industrial Hygiene Association
BEI - Biological Exposure Indices
CAS – Chemical Abstracts Service
DOT – US Department of Transportation
EPA – US Environmental Protection Agency
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC - Intermediate Bulk Container
IMDG - International Maritime Dangerous Goods
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OSHA – US Occupational Health and Safety Administration
SARA – US EPA Superfund Amendments and Reauthorization Act
TSCA – US EPA Toxic Substances Control Act
UN - United Nations

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

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