

MATERIAL SAFETY DATA SHEET

N-BUTYL ACETATE

MSDS Name:	N-BUTYL ACETATE, 99+%
Synonyms:	Butyl acetate
Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
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Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
123-86-4	N-BUTYL ACETATE	99+%	204-658-1

Hazard Symbols:	None listed
Risk Phrases:	10 66 67

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Potential Health Effects

Eye:	Causes severe eye irritation. Causes redness and pain.
Skin:	Prolonged and/or repeated contact may cause defatting of the skin and dermatitis.
Ingestion:	May cause central nervous system depression. May cause severe irritation of the mouth and throat.
Inhalation:	Causes respiratory tract irritation. May cause narcotic effects in high concentration.
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:	

Section 5 - Fire Fighting Measures

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 may form an explosive mixture with air. Will burn if involved in a fire. Containers may explode in the heat of a fire. 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.

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. 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 Controls, Personal Protection

Engineering Controls:	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Exposure Limits	CAS# 123-86-4:
	United Kingdom, WEL - TWA: 150 ppm TWA; 724 mg/m ³ TWA United Kingdom, WEL - STEL: 200 ppm STEL; 966 mg/m ³ STEL
	United States OSHA: 150 ppm TWA; 710 mg/m ³ TWA
	Belgium - TWA: 150 ppm VLE; 723 mg/m ³ VLE Belgium - STEL: 200 ppm VLE; 964 mg/m ³ VLE
	France - VME: 150 ppm VME; 710 mg/m ³ VME France - VLE: 200 ppm VLE; 940 mg/m ³ VLE
	Germany: 100 ppm TWA; 480 mg/m ³ TWA
	Japan: 100 ppm OEL; 475 mg/m ³ OEL
	Malaysia: 150 ppm TWA; 713 mg/m ³ TWA
	Netherlands: 150 ppm MAC; 710 mg/m ³ MAC
	Russia: 50 mg/m ³ TWA (vapour)
	Spain: 150 ppm VLA-ED; 724 mg/m ³ VLA-ED Spain: 200 ppm VLA-EC; 965 mg/m ³ VLA-EC

Personal Protective Equipment

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
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:	Clear liquid
Color:	APHA: 10 max
Odor:	banana-like
pH:	Not available
Vapor Pressure:	15 mm Hg @ 25) deg C
Viscosity:	0.69 mPas 25 deg C
Boiling Point:	127 deg C @ 760.00mm Hg (260.60°F)
Freezing/Melting Point:	-77.9 deg C (-108.22°F)
Autoignition Temperature:	370 deg C (698.00 deg F)
Flash Point:	22 deg C (71.60 deg F)
Explosion Limits: Lower:	.08 vol %
Explosion Limits: Upper:	.01 vol %
Decomposition Temperature:	Not available
Solubility in water:	0.7 G/100ML (20°C)
Specific Gravity/Density:	.8750g/cm3
Molecular Formula:	C6H12O2
Molecular Weight:	116.16

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, ignition sources, exposure to moist air or water.
Incompatibilities with Other Materials	Strong oxidizing agents, strong reducing agents, strong bases, nitrates, potassium tert-butoxide.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 123-86-4: AF7350000
LD50/LC50:	RTECS: CAS# 123-86-4: Draize test, rabbit, eye: 100 mg Moderate; Draize test, rabbit, skin: 500 mg/24H Moderate; Inhalation, mouse: LC50 = 6 gm/m3/2H; Inhalation, rat: LC50 = 390 ppm/4H; Oral, mouse: LD50 = 6 gm/kg; Oral, rabbit: LD50 = 3200 mg/kg; Oral, rat: LD50 = 10768 mg/kg; Skin, rabbit: LD50 = >17600 mg/kg; Other: Irritation: Eye, human: 300 ppm Eye, rabbit: 20 mg severe
Carcinogenicity:	N-BUTYL ACETATE - 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

Other:	
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Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	BUTYL ACETATES	BUTYL ACETATES	BUTYL ACETATES
Hazard Class:	3	3	3
UN Number:	1123	1123	1123
Packing Group:	II	II	II

USA RQ: CAS# 123-86-4: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

- R 10 Flammable.
- R 66 Repeated exposure may cause skin dryness or cracking
- R 67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

- R 67 Vapours may cause drowsiness and dizziness.
- WGK (Water Danger/Protection)
- CAS# 123-86-4: 1
- Canada
- CAS# 123-86-4 is listed on Canada's DSL List

US Federal

- TSCA
- CAS# 123-86-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	July 24, 2015
Revision #1 Date	

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