



# MATERIAL SAFETY DATA SHEET

## N-BUTYL ACETATE

<b>MSDS Name:</b>	N-BUTYL ACETATE, 99+%
<b>Synonyms:</b>	Butyl acetate

<b>Company Identification:</b>	Hazel Mercantile Limited
<b>Company Identification: (INDIA)</b>	701, Embassy Centre , Nariman Point , Mumbai - 400 021
<b>For information in the INDIA, call:</b>	+91-22-2282 4444 (50 lines)

## Section 2 - Composition, Information on Ingredients

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

<b>Hazard Symbols:</b>	None listed
<b>Risk Phrases:</b>	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

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

## Section 4 - First Aid Measures

<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin:</b>	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Notes to Physician:</b>	

## Section 5 - Fire Fighting Measures

<b>General Information:</b>	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.
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.



### Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	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

<b>Handling:</b>	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.
<b>Storage:</b>	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

<b>Engineering Controls:</b>	Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
<b>Exposure Limits</b>	CAS# 123-86-4: United Kingdom, WEL - TWA: 150 ppm TWA; 724 mg/m3 TWA United Kingdom, WEL - STEL: 200 ppm STEL; 966 mg/m3 STEL United States OSHA: 150 ppm TWA; 710 mg/m3 TWA Belgium - TWA: 150 ppm VLE; 723 mg/m3 VLE Belgium - STEL: 200 ppm VLE; 964 mg/m3 VLE France - VME: 150 ppm VME; 710 mg/m3 VME France - VLE: 200 ppm VLE; 940 mg/m3 VLE Germany: 100 ppm TWA; 480 mg/m3 TWA Japan: 100 ppm OEL; 475 mg/m3 OEL Malaysia: 150 ppm TWA; 713 mg/m3 TWA Netherlands: 150 ppm MAC; 710 mg/m3 MAC Russia: 50 mg/m3 TWA (vapour) Spain: 150 ppm VLA-ED; 724 mg/m3 VLA-ED Spain: 200 ppm VLA-EC; 965 mg/m3 VLA-EC

### Personal Protective Equipment

<b>Eyes:</b>	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.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	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

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	APHA: 10 max
<b>Odor:</b>	banana-like
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	15 mm Hg @ 25) deg C
<b>Viscosity:</b>	0.69 mPas 25 deg C
<b>Boiling Point:</b>	127 deg C @ 760.00mm Hg ( 260.60°F)
<b>Freezing/Melting Point:</b>	-77.9 deg C ( -108.22°F)
<b>Autoignition Temperature:</b>	370 deg C ( 698.00 deg F)
<b>Flash Point:</b>	22 deg C ( 71.60 deg F)
<b>Explosion Limits: Lower:</b>	.08 vol %
<b>Explosion Limits: Upper:</b>	.01 vol %
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	0.7 G/100ML (20°C)
<b>Specific Gravity/Density:</b>	.8750g/cm3
<b>Molecular Formula:</b>	C6H12O2
<b>Molecular Weight:</b>	116.16

## Section 10 - Stability and Reactivity

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

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 123-86-4: AF7350000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 123-86-4:</b> 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
<b>Carcinogenicity:</b>	N-BUTYL ACETATE - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

<b>Other:</b>	
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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:	11/08/2007
Revision #1 Date	

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