## N-BUTYL ACETATE EXTRA PURE MSDS

# CAS No: 123-86-4 MSDS



## MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
	:
EC no	: 204-658-1
CAS No	: 123-86-4
Product code	: 00060
Chemical structure	: O
	H <sub>3</sub> C <sup>O</sup> CH <sub>3</sub>

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

### 1.2.2. Uses advised against

No additional information available

### **1.3.** Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Flammable liquids, H226

Category 3 Specific target organ H336 toxicity — Single exposure, Category 3, Narcosis

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC F; R10-66-67 Full text of R-phrases: see section 16 Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 Signal word (CLP) : Warning Hazard statements (CLP) : H226 - Flammable liquid and vapour H336 - May cause drowsiness or dizziness Precautionary statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking EUH phrases : EUH066 - Repeated exposure may cause skin dryness or cracking

### 2.3. Other hazards

No additional information available

SECTIO	SECTION 3: Composition/information on ingredients		
3.1.	Substance		
Name		: n-BUTYL ACETATE Extra Pure	
CAS No	0	: 123-86-4	
EC no		: 204-658-1	

Full text of R- and H-phrases: see section 16

## 3.2. Mixture

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measure			
First-aid measures after inhalation		esh air and keep at rest in a position comfortable for I ITER or doctor/physician if you feel unwell.	preathing.
First-aid measures after skin contact		mediately all contaminated clothing. Rinse skin with ated exposure may cause skin dryness or cracking.	
First-aid measures after eye contact		ses, if present and easy to do. Continue rinsing. Rins al minutes. If eye irritation persists: Get medical advic	,
First-aid measures after ingestion	Rinse mouth out wi	h water. If you feel unwell, seek medical advice.	
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4.2. Most important symptoms and Symptoms/injuries after inhalation	effects, both acute and delayed : May cause drowsiness or dizziness.
	edical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	ne substance or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measur	es
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked
	lights. No smoking.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	ainment and cleaning up
Methods for cleaning up	: Collect spillage. Take up liquid spill into absorbent material, e.g.: sand. Take up
	mechanically (sweeping, shovelling) and collect in suitable container for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: No naked lights. No smoking. Take precautionary measures against static discharge Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	<ul> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
	Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Heat sources.

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No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 116.16 g/mol
Colour	: Clear Colorless.
Odour	: mild, fruity odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 1
Melting point	: -78 °C
Freezing point	: No data available
Boiling point	: 124 - 126
Flash point	: 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Flammable liquid and vapour
Vapour pressure	: 15 at 25C
Relative vapour density at 20 °C	: 4.01
Relative density	: No data available
Density	: 0.8822 g/cm <sup>3</sup>
Relative gas density	: 0.88
Solubility	: Water: 0.7 % @ 20C

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Log Pow	: 1.82
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.017 - 0.076 vol %

#### 9.2. **Other information**

### No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### **Chemical stability** 10.2.

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. **Conditions to avoid**

Open flame. Overheating. Direct sunlight. Heat. Sparks.

#### 10.5. **Incompatible materials**

No additional information available

#### Hazardous decomposition products 10.6.

May release flammable gases.

## **SECTION 11: Toxicological information**

11.1.	.1. Information on toxicological effects		
Acute to	oxicity	: Not classified	

Skin corrosion/irritation	: Not classified
Additional information	: Repeated exposure may cause skin dryness or cracking
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause drowsiness or dizziness.
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
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Log Pow	1.82
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	
14.1. UN number	. 1102
UN-No. (ADR)	: 1123
UN-No. (IMDG) UN-No.(IATA)	: 1123 : 1123
UN-No.(IATA) UN-No.(ADN)	: 1123
UN-No. (RID)	: 1123
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: BUTYL ACETATES
Proper Shipping Name (IMDG)	: BUTYLACETATES
Proper Shipping Name (IATA)	: BUTYLACETATES
Proper Shipping Name (ADN)	: BUTYLACETATES
Proper Shipping Name (RID)	: BUTYLACETATES
Transport document description (ADR)	: UN 1123 BUTYL ACETATES, 3, III, (D/E)

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Transport document description (IMDG)	: UN 1123 BUTYL ACETATES, 3, III
Transport document description (IATA)	: UN 1123 BUTYL ACETATES, 3, III
Transport document description (ADN)	: UN 1123 BUTYL ACETATES, 3, III
Transport document description (RID)	: UN 1123 BUTYL ACETATES, 3, III
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
IMDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
ADN	
Transport hazard class(es) (ADN)	: 3
Danger labels (ADN)	: 3
RID	V
Transport hazard class(es) (RID)	: 3
Danger labels (RID)	: 3
14.4. Packing group	
	· III

: 111

Packing group (ADR)

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Packing group (IMDG)	: III
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

## 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container	: T2
instructions (ADR)	
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	30
	1123
Tunnel restriction code (ADR)	: D/E
EAC code	: 3YE
- Transport by sea	
Special provision (IMDG)	: 223
Limited quantities (IMDG)	: 5 L : E1
Excepted quantities (IMDG) Packing instructions (IMDG)	
	: P001, LP01 : IBC03
IBC packing instructions (IMDG) Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
MFAG-No	: 129
	. 125
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
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PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A3
ERG code (IATA)	: 3L
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

n-BUTYL ACETATE Extra Pure is not on the REACH Candidate List n-BUTYL ACETATE Extra Pure is not on the REACH Annex XIV List

### 15.1.2. National regulations

### Germany

AwSV/VwVwS Annex reference

: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 42)

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12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	<ul> <li>R10 <h226;h336>; Emergency management guidelines for the storage of flammable liquids must be followed</h226;h336></li> </ul>
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

## 15.2. Chemical safety assessment

No additional information available

**SECTION 16: Other information** 

## Full text of R-, H- and EUH-phrases:

Flam. Liq. 3	Flammable liquids, Category 3
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking
R10	Flammable
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product