

# Material Safety Data Sheet



n-BUTYL ACETATE 99.5% AR

VERSION : 02

DATE OF ISSUE : 26-08-2019

SUPERSEDES : 01

Product Code :22392

Page 1 of 10

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Trade name : n-BUTYL ACETATE 99.5% AR

Product code : 22392

Identification of the product : n-Butyl Acetate

CAS No :123-86-4

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

Use : Industrial. For professional use only.

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

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503

### **1.4. Emergency telephone number**

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).

## **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 toxicity — Single exposure, H336

Category 3,

Classification according to Directive 67/548/EEC or 1999/45/EC

Adverse physicochemical, human health and environmental effects

No additional information available

### **2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display  
Extra classification(s) to display

Symbol(s) : Highly flammable



R Phrase(s) : R66: Repeated Exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

R10: Flammable.

S Phrase(s) : S25: Avoid contact with eyes.

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**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code :22392**

**Page 2 of 10**

## Hazard pictogram



**Signal word** : Warning

**Hazard statements** : H226 - Flammable liquid and vapour

H336 - May cause drowsiness or dizziness

**Precautionary statements** : 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

## 3. Composition/information on ingredients

### 3.1. Substance: n-BUTYL ACETATE AR

CAS No : 123-86-4

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Repeated exposure may cause skin dryness or cracking.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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**VERSION : 02**

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**SUPERSEDES : 01**

**Product Code :22392**

**Page 3 of 10**

## **5. Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media : Do not use a heavy water stream.

### **5.2. Special hazards arising from the 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.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective 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 containment 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

## **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.

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**VERSION : 02**

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**SUPERSEDES : 01**

**Product Code :22392**

**Page 4 of 10**

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## **7.2. Conditions for safe storage, including 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.

## **7.3. Specific end use(s)**

No additional information available

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

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

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

**Odour threshold** : No data available

**pH** : 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>

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**SUPERSEDES : 01**

**Product Code :22392**

**Page 5 of 10**

**Relative gas density : 0.88**

**Solubility : Water: 0.7 % @ 20C**

**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

## **10. Stability and reactivity**

### **10.1. Reactivity**

No additional information available

### **10.2. Chemical stability**

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

### **10.6. Hazardous decomposition products**

May release flammable gases.

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : 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 exposure)

: May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

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**VERSION : 02**

**DATE OF ISSUE : 26-08-2019**

**SUPERSEDES : 01**

**Product Code :22392**

**Page 6 of 10**

## **12. Ecological information**

### **12.1. Toxicity**

No additional information available

### **12.2. Persistence and degradability**

No additional information available

### **12.3. Bioaccumulative potential**

Log Pow 1.82

### **12.4. Mobility in soil**

No additional information available

### **12.5. Results of PBT and vPvB assessment**

No additional information available

### **12.6. Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal

Recommendations : Dispose of contents/container to ...

Additional information : Handle empty containers with care because residual vapours are flammable.

## **14. Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### **14.1. UN number**

UN-No. (ADR) : 1123

UN-No. (IMDG) : 1123

UN-No.(IATA) : 1123

UN-No.(ADN) : 1123

UN-No. (RID) : 1123

### **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : BUTYL ACETATES

Proper Shipping Name (IMDG) : BUTYL ACETATES

Proper Shipping Name (IATA) : BUTYL ACETATES

Proper Shipping Name (ADN) : BUTYL ACETATES

Proper Shipping Name (RID) : BUTYL ACETATES

Transport document description (ADR) : UN 1123 BUTYL ACETATES, 3, III, (D/E)

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

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**SUPERSEDES : 01**

**Product Code :22392**

**Page 7 of 10**

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

**IATA-** Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3

**ADN-** Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3

**RID-** Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3

## **14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

## **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

instructions (ADR) : T2

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 : Tunnel restriction code (ADR) : D/E

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**SUPERSEDES : 01**

**Product Code :22392**

**Page 8 of 10**

EAC code : 3YE

**Transport by sea-** Special provision (IMDG) : 223

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

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

**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

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) : 5 L

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

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**Product Code :22392**

**Page 9 of 10**

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

## **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 is not on the REACH Candidate List

n-BUTYL ACETATE 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)

12th Ordinance Implementing the Federal

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

#### **Denmark**

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H336>; Emergency management guidelines for the storage of flammable liquids must be followed

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

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was

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**SUPERSEDES : 01**

**Product Code :22392**

**Page 10 of 10**

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**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

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