

# SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Revision Date Apr 01, 2021

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

1.1 Product identifier

Product name n-BUTYL ACETATE

CAS-No. 123-86-4

Product code AR1025, EP1025, GP1025, LC1025, RP1025, VL1025

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

Identified uses Chemical for analysis and production.

1.3 Details of the supplier of the safety data sheet

Company RCI LABSCAN LIMITED.

24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

Telephone number (662) 613-7911-4 Fax number (662) 613-7915

1.4 Emergency Telephone Number

Emergency phone (662) 613-7911-4

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 Label elements

## Labelling according Regulation (EC) No 1272/2008

#### Pictogram





Signal word Warning

Hazard statement(s)

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.
P261 Avoid breathing fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P319 Get medical help if you feel unwell.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

2.3 Other hazards None

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms Acetic acid n-butyl ester, Acetic acid butyl ester, Butyl acetate, 1-Butyl acetate,

Butyl ethanoate.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 123-86-4 204-658-1 607-025-00-1 CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub> 116.16 g/mol <=100

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Concentration	Classification
n-Butyl acetate		
CAS-No 123-86-4	<=100%	Flammable liquids (Category 3), H226
EC-No 204-658-1		Specific target organ toxicity - single exposure (Category
EC-Index-No 607-025-00-1		3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of

shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose.

Use suitable instruments/apparatus.

Skin contact Remove contaminated clothing and wash affected skin with soap and water. If signs of

poisoning appear, treat as for inhalation. Obtain medical attention. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more

readily and burns fiercely.

Eye contact If the substance has got into the eyes, immediately wash out with plenty of water at least

15 minutes. Obtain medical attention.

Ingestion Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath,

give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an

unconscious person.

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

The most important known symptoms and effects are described in section 2.2 and section 11

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

Laxative: Use sodium sulfate 1 tablespoon/ 250ml of water, after ingestion of large. Activated charcoal. No milk, no castor oil, no alcohol.

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# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Extinguish with carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

#### 5.2 Special hazards arising from the substance or mixture

Vapors may form explosive mixture with air at ambient temperature. Flash back possible over considerable distance.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

## 5.4 Further information

Standard procedure for chemical fires. Take measures to prevent electrostatic charging. Prevent firefighting water from entering surface water or groundwater.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

## 6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

## 6.3 Methods and materials for containment and cleaning up

Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly.

#### 6.4 Reference to other sections

For disposal see Section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

# **Derived No Effect Level (DNEL)**

pplication Area	Health Effects	Exposure	Value
Worker	Acute Local effects	Inhalation	960 mg/m <sup>3</sup>
Worker	Acute Systemic effects	Inhalation	960 mg/m <sup>3</sup>
Worker	Long-term Local effects	Inhalation	480 mg/m <sup>3</sup>
Worker	Long-term Systemic effects	Inhalation	480 mg/m <sup>3</sup>
Consumer	Acute Local effects	Inhalation	859.7 mg/m <sup>3</sup>
Consumer	Acute Systemic effects	Inhalation	859.7 mg/m <sup>3</sup>
Consumer	Long-term Local effects	Inhalation	102.34 mg/m <sup>3</sup>
Consumer	Long-term Systemic effects	Inhalation	102.34 mg/m <sup>3</sup>

## **Predicted No Effect Concentration (PNEC)**

Compartment	Value	
Aquatic intermittent release	0.36 mg/l	
Fresh water	0.18 mg/l	
Fresh water sediment	0.981 mg/kg	
Marine water	0.018 mg/l	
Marine sediment	0.981 mg/kg	
Sewage treatment plant Soil	35.6 mg/l 0.0903 mg/kg	

#### 8.2 Exposure controls

## Appropriate engineering controls

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

# Individual protection measures (Personal protective equipment, PPE) Eye/face protection

Goggles giving complete protection to eyes.

## Skin protection

Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes.

Handle with gloves

- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

# Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter A (EN 141 or EN 14387).

## **Environmental exposure controls**

Prevent liquid entering sewers, basements and workpits.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance: Form Liquid
: Color Colorless

Odour Fruit (Banana)-like
Odour Threshold Not Available
pH Neutral at 20°C

Melting point/range -76 °C

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Boiling point/range 126 °C at 1013 hPa
Flash point 27 °C (closed cup)
Evaporation rate Not Available
Flammability (solid, gas) Not Available
Explosion limits: lower 1.2 % (V)
upper 7.5 % (V)

Vapor Pressure 13 hPa at 20°C

Relative Vapor Density 4.01

Density

0.880 g/ml at 20°C

Water solubility

5.3g/l at 20°C

Partition coefficient (n-octanol/water)

log Pow: 1.81

370 °C

Decomposition Temperature

Viscosity

Not Available

Viscosity

Explosive properties

0.880 g/ml at 20°C

Nog Pow: 1.81

370 °C

Not Available

Not Explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Heat sensitive/decomposition. Unsuitable working materials: various plastics, rubber.

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Risk of explosion in contact with: strong oxidizing agents.

The substance can react dangerously with: alkali hydroxide such as potassium-tert.-butoxide.

## 10.4 Conditions to avoid

Heat, flames and sparks.

## 10.5 Incompatible materials

Alkali metals, alkali hydroxides, strong oxidizing agents, strong reducing agents, strong bases.

## 10.6 Hazardous decomposition products

Carbon monoxides, Carbon dioxides (Hazardous decomposition products from under fire condition).

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

LD<sub>50</sub> (oral, rat): 13100 mg/kg

## **Acute oral toxicity**

Symptoms: Risk of aspiration upon vomiting.

## Acute inhalation toxicity

After inhalation of vapors; drowsiness.

## Skin corrosion/irritation

After skin contact: drying out effect resulting in rough and chapped skin.

## Serious eye damage/eye irritation

Not Available

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## Respiratory or skin sensitization

Not Available

# Germ cell mutagenicity

Not Available

#### Carcinogenicity

Not Available

#### Reproductive toxicity

Not Available

## **Teratogenicity**

Not Available

## Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

## Specific target organ toxicity (STOT) - repeated exposure

Not Available

#### **Aspiration hazard**

Not Available

#### **Further information**

After absorption of large quantities; narcosis.

The product should be handled with the care usual when dealing with chemicals.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish  $LC_{50}$  Leucicus idus : 62 mg/l/96h.  $EC_{50}$  Daphnia magna: 72.8 mg/l /24h.

and other aquatic invertebrates

Toxicity to bacteria EC<sub>10</sub> Ps. Putida: 959 mg/l /18d.

## 12.2 Persistence and degradability

Biodegradability 98% /28 d. Readily biodegradable

## 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water) log Pow: 1.81 (experimental).

No Bioaccumulation is to be expected (log P o/w 1-3)

## 12.4 Mobility in soil

Not Available

## 12.5 Other adverse effects

Biological effects: Toxic effect on fish and plankton. Risk of formation of toxic and explosive mixtures with air above water surface. Harmful effect on aquatic organism.

Do not allow to enter waters, waste water or soil.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally

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count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

# **SECTION 14: Transport information**

## Land Transport (ADR/RID)

UN Number 1123

UN proper shipping name BUTYL ACETATES

Transport hazard class(es) 3
Packing group III
Environmental hazards No
Special precautions for user Yes

## Sea transport (IMDG)

UN Number 1123

UN proper shipping name BUTYL ACETATES

Transport hazard class(es)

Packing group

Marine pollutant

Special precautions for user

EmS

Second Seco

# Air transport (IATA)

UN Number 1123

UN proper shipping name BUTYL ACETATES

Transport hazard class(es) 3
Packing group III
Environmental hazards No
Special precautions for user No

## River transport (AND/ADNR)

(Not examined)

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Not Available

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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## **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3

H226 Flammable liquid and vapour.H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Recommended restrictions

Take notice of labels and safety data sheets for the working. Chemicals Take necessary action to avoid static electricity discharge.

#### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

## **Further information**

Contact to RCI Labscan Limited.

#### **Revision Date**

01/04/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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