



## Safety Data Sheet

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

#### Product identifier:

Product name: Butyl acetate

SDS No. : 1083E-3

#### Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

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e-mail address: kagakuhinanzenkanri@kishida.co.jp

### 2. Hazards identification

#### GHS classification and label elements of the product

#### Classification of the substance or mixture

##### PHYSICAL AND CHEMICAL HAZARDS

Flammable liquids: Category 2

##### HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2B

Specific target organ toxicity – single exposure: Category 3 (Respiratory tract irritation)

Specific target organ toxicity – single exposure: Category 3 (Narcosis)

##### ENVIRONMENT HAZARDS

Hazardous to the aquatic environment (Acute): Category 3

#### Label elements



Signal word: Danger

#### HAZARD STATEMENT

Highly flammable liquid and vapor

Causes eye irritation

May cause respiratory irritation

May cause drowsiness or dizziness

Harmful to aquatic life

#### PRECAUTIONARY STATEMENT

##### Prevention

Avoid release to the environment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wash contaminated parts thoroughly after handling.



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

**Response**

In case of fire: Use appropriate media other than water to extinguish.

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

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Storage**

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal**

Dispose of contents/container in accordance with local/national regulation.

**Specific Physical and Chemical hazards**

Highly flammable liquid. Vapor/air mixture may explode.

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**3. Composition/information on ingredients****Mixture/Substance selection:****Substance**

Ingredient name:Butyl acetate

Content (%):99(min)

Chemical formula:CH<sub>3</sub>COO(CH<sub>2</sub>)<sub>3</sub>CH<sub>3</sub>

Chemicals No, Japan:2-731

CAS No.:123-86-4

MW:116.16

ECNO:204-658-1

Note : The figures shown above are not the specifications of the product.

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**4. First-aid measures****Descriptions of first-aid measures****General measures**

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

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

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

**IF ON SKIN (or hair)**

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.

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



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## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

In case of fire, use foam, dry powder, CO<sub>2</sub> to extinguish.

#### Unsuitable extinguishing media

Indoor firefighting equipment or outdoor firefighting equipment

Sprinkler equipment

Dry-powder firefighting equipment – except for phosphate etc.,hydrogen carbonate etc.

Straight stream water extinguisher

Water mist extinguisher

Reinforcing liquid jet extinguisher

Dry-powder extinguisher – except for phosphate etc.,hydrogen carbonate etc.

Bucket of water or tank of water

### Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

### Advice for firefighters

#### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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## 6. Accidental release measures

### Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

### Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

### Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

### Preventive measures for secondary accident

Collect spillage.

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## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

(Exhaust/ventilator)

Exhaust/ventilator should be available.



(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Use only outdoors or in a well-ventilated area.

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

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

Advice on general occupational hygiene

Wash contaminated parts thoroughly after handling.

Storage

Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Container and packaging materials for safe handling

Glass

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## 8. Exposure controls/personal protection

### Control parameters

#### Adopted value

(Butyl acetate)

ACGIH(2016) TWA: 50ppm;

STEL: 150ppm (Eye & URT irr)

#### OSHA-PEL

(Butyl acetate)

TWA: 150ppm, 710mg/m<sup>3</sup>

### Exposure controls

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection

Wear respiratory protection.

##### Hand protection

Wear protective gloves.

##### Eye protection

Wear eye/face protection.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state: Liquid

Color: Colorless

Odor: Characteristic odour

Melting point/Freezing point: -78°C

Boiling point or initial boiling point: (Butyl acetate)126°C

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit:

Lower explosion limit: 1.2 vol %

Upper explosion limit: 7.6 vol %



Flash point: (Butyl acetate)(C.C.) 22°C

Auto-ignition temperature: (Butyl acetate)420°C

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: 0.7 g/100 ml (20°C)

n-Octanol/water partition coefficient: log Pow1.82

Vapor pressure: 1.2 kPa (20°C)

Density and/or relative density: 0.88

Relative vapor density (Air=1): 4

Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1.04

Particle characteristics data is not available.

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## 10. Stability and Reactivity

### Reactivity

Not available.

### Chemical stability

Stable under normal storage/handling conditions.

### Possibility of hazardous reactions

The vapour is heavier than air and may travel along the ground; distant ignition possible.

Reacts with strong oxidants, strong acids and strong bases. This generates fire and explosion hazard. Attacks many plastics and rubber. (ICSC 0399)

### Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

### Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents

### Hazardous decomposition products

Carbon oxides

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## 11. Toxicological Information

### Information on toxicological effects

Acute toxicity data is not available.

### Irritant properties

Skin corrosion/irritation data is not available.

### Serious eye damage/irritation

[GHS Cat. Japan, base data]

(Butyl acetate)

rabbit recover after 48hours (SIDS, 2009)

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

### STOT

#### STOT-single exposure

[cat.3 (resp. irrit.)]

[GHS Cat. Japan, base data]

(Butyl acetate)

respiratory tract irritation (CICAD 64 2005)

[cat.3 (drow./dizz.)]

[GHS Cat. Japan, base data]



(Butyl acetate)  
narcotic effect (CICAD 64 2005)  
STOT-repeated exposure data is not available.  
Aspiration hazard data is not available.

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## 12. Ecological Information

Ecotoxicity  
Aquatic toxicity  
Harmful to aquatic life  
Hazardous to the aquatic environment (Acute)  
[GHS Cat. Japan, base data]  
(Butyl acetate)  
Fish (Pimephales promelas) LC50=18mg/L/96hr (CICAD 64, 2005)

Water solubility  
(Butyl acetate)  
0.7 g/100 ml (20°C) (ICSC, 2003)

Persistence and degradability  
(Butyl acetate)  
Degrade rapidly (BOD\_Degradation : 98% (SIDS, 2009))

Bioaccumulative potential  
(Butyl acetate)  
log Pow=1.78 (PHYSPROP DB, 2009)

Mobility in soil  
Mobility in soil data is not available.

Other adverse effects  
Ozone depleting chemical data is not available.

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## 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal,  
including the disposal of any contaminated packaging

Waste treatment methods  
Avoid release to the environment.  
Dispose of contents/container in accordance with local/national regulation.

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## 14. Transport Information

UN No. or ID No.: 1123  
UN Proper Shipping Name :  
BUTYL ACETATES  
Class or division (Transport hazard class) : 3  
Packing group : II  
ERG GUIDE No.: 129

IMDG Code (International Maritime Dangerous Goods Regulations)  
UN No.: 1123  
Proper Shipping Name :  
BUTYL ACETATES  
Class or division : 3  
Packing group : II

IATA Dangerous Goods Regulations  
UN No.: 1123  
Proper Shipping Name :  
BUTYL ACETATES



Class or division : 3  
Hazard labels : Flamm.liquid  
Packing group : II  
Special provisions No.: A3

**Environmental hazards**

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

**Maritime transport in bulk according to IMO instruments**

Noxious Liquid ; Cat. Y

Butyl acetate

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**15. Regulatory Information**

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

Chemicals listed in TSCA Inventory

Butyl acetate

**Other regulatory information**

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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**16. Other information****GHS classification and labelling**

Flam. Liq. 2: H225 Highly flammable liquid and vapor

Eye Irrit. 2B: H320 Causes eye irritation

STOT SE 3: H335 May cause respiratory irritation

STOT SE 3: H336 May cause drowsiness or dizziness

Aquatic Acute 3: H402 Harmful to aquatic life

**Reference Book**

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (62nd Edition) 2021

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2021 TLVs and BEIs. (ACGIH)

Supplier's data/information

**General Disclaimer**

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).