

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : Butyl Acetate [for Spectrophotometry]
CAS No. : 123-86-4

Manufacturer or supplier's details

Company : Heynova (Shanghai) New Material Technology CO., Ltd
Address : Building 3, No. 690 Bibo Road, Pudong New Area, Shanghai, China
Telephone : +86-178-2110-2608
E-mail address : info@heynovachem.com

2. HAZARDS IDENTIFICATION

Emergency Overview



Appearance : liquid
Color : colorless

Flammable liquid and vapor. Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life.

GHS Classification

Flammable liquids : Category 3
Serious eye damage/eye irritation : Category 2B
Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation, Narcotic effects)
Short-term (acute) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H320 Causes eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist or vapors.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Flammable liquid and vapor.

Health hazards

Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Environmental hazards

Harmful to aquatic life.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS RN	Concentration (% w/w)
Butyl Acetate	123-86-4	>= 99 -<= 100

4. FIRST AID MEASURES

If inhaled : Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER or doctor/ physician if you feel unwell.

In case of skin contact : Take off all contaminated clothing immediately.
 If on skin, rinse well with water.
 If skin irritation or rash occurs: Get medical advice/ attention.

In case of eye contact : Rinse with plenty of water.
 If easy to do, remove contact lens, if worn.
 If eye irritation persists: Get medical advice/ attention.

If swallowed : Get medical advice/ attention.
 Rinse mouth.

Most important symptoms and : Causes eye irritation.

effects, both acute and delayed

May cause respiratory irritation.
May cause drowsiness or dizziness.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Dry powder, Foam, Water spray, Carbon dioxide (CO ₂)
Specific hazards during fire fighting	: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.
Special protective equipment for fire-fighters	: Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions	: Prevent product from entering drains.
Methods and materials for containment and cleaning up	: Collect as much of the spill as possible with a suitable absorbent material.

7. HANDLING AND STORAGE

Handling

Technical measures	: Prevent generation of vapor or mist. Take precautionary measures against static discharge. Use explosion-proof equipment.
Local/Total ventilation	: Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.
Advice on safe handling	: Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands and face thoroughly after handling.
Avoidance of contact	: Oxidizing agents, Reducing agents, Strong bases

Storage

Conditions for safe storage	: Keep container tightly closed. Store in a cool and shaded area. Keep in a well-ventilated place. Use explosion-proof equipment. Store locked up.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS RN	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Butyl Acetate	123-86-4	PC-TWA	200 mg/m ³	CN OEL
		PC-STEL	300 mg/m ³	CN OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH

Engineering measures : Install a closed system or local exhaust.
Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection : Gas mask
Self-contained breathing apparatus

Eye/face protection : Safety glasses
Safety goggles
Face-shield

Skin and body protection : Impervious protective clothing

Hand protection : Impervious gloves

*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: colorless
Odor	: No data available
Odor Threshold	: 0.39 ppm
pH	: 6.2 (20 °C) Concentration: 5.3 g/l
Melting point/freezing point	: -78 °C
Boiling point/boiling range	: 126 °C
Flash point	: 22 °C
Evaporation rate	: No data available
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: 7.6 %(V)
Lower explosion limit / Lower flammability limit	: 1.2 %(V)
Vapor pressure	: 1.2 kPa (20 °C)
Relative vapor density	: 4.0
Relative density	: 0.88
Solubility(ies)	

Water solubility	:	14 g/l slightly soluble (20 °C)
Solubility in other solvents	:	completely miscible Solvent: Ether
		completely miscible Solvent: Alcohol
Partition coefficient: n-octanol/water (log value)	:	2.3
Autoignition temperature	:	420 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	0.556 mPa.s (40 °C)
Viscosity, kinematic	:	0.84 mm ² /s (20 °C)
Molecular weight	:	116.16 g/mol

10. STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Electrical spark Open flame Electrostatic discharge
Incompatible materials	:	Oxidizing agents, Reducing agents, Strong bases
Hazardous decomposition products	:	Carbon monoxide, Carbon dioxide (CO ₂)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Based on available data, the classification criteria are not met.

Components:

Butyl Acetate:

Acute oral toxicity	:	LD50 (Rat): 10,768 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	LC50 (Mouse): 6 g/m ³ Exposure time: 2 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 17,600 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Causes eye irritation.

Product:

Result : Mild eye irritation

Components:**Butyl Acetate:**

Result : Mild eye irritation

Respiratory or skin sensitization**Skin sensitization**

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Product:

Assessment : May cause respiratory irritation.
May cause drowsiness or dizziness.

Components:**Butyl Acetate:**

Assessment : May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified due to lack of data.

Repeated dose toxicity : No information available.

Aspiration toxicity

Not classified due to lack of data.

RTECS No. : AF7350000 (Butyl Acetate)

12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Components:**Butyl Acetate:****Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Persistence and degradability

No data available

Bioaccumulative potential**Components:****Butyl Acetate:**

Bioaccumulation : Bioconcentration factor (BCF): 10

Partition coefficient: n-octanol/water (log value) : 2.3

Mobility in soil**Components:****Butyl Acetate:**

Distribution among environmental compartments : Koc: 200

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Disposal in accordance with local and national regulations.
Take precautions against ignition or explode.
Entrust disposal to a licensed waste disposal company.

Contaminated packaging : Disposal in accordance with local and national regulations.
Before disposal of used container, remove contents completely.

14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1123
Proper shipping name : Butyl acetates
Class : 3
Packing group : II

IMDG-Code

UN number : UN 1123
Proper shipping name : BUTYL ACETATES
Class : 3
Packing group : II
EmS Code : F-E, S-D

Domestic regulation**GB 6944/12268**

UN number : UN 1123
Proper shipping name : BUTYL ACETATES
Class : 3
Packing group : II

15. REGULATORY INFORMATION**Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals : Listed

The ingredients of this product are reported in the following inventories:

CH BAGREG	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
TECI	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Revision Date : 2025/06/12
Date format : yyyy/mm/dd

Disclaimer

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.