



Kimya Resin Arak

## MATERIAL SAFETY DATA SHEET

### Normal Butyl acetate

Tel: (+98) 86-3422-4515  
(Company)

Tel: (+98) 86-3823-2049  
(Factory)

Chemical Industrial Co.

### 1. Identification

Product Name	n-Butyl acetate
CAS No	123-86-4
Synonyms	n-butyl acetate, butyl acetate, butyl ethanoate

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

#### Company

Kimya Resin Arak Company

Tel: (+98) 86-3422-4515 (Company)

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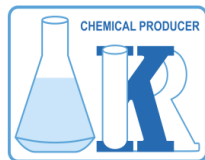
### 2. Hazard (s) identification



#### Precautionary Statements

#### Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/protective clothing/eye protection/face protection Keep cool.



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#### **Inhalation**

IF INHALED: 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.

#### **Skin**

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

#### **Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

#### **Storage**

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

#### **Disposal**

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

#### **Hazards not otherwise classified (HNOC)**

Repeated exposure may cause skin dryness or cracking.

### 3. First-aid measures

#### **General Advice**

If symptoms persist, call a physician.

#### **Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

#### **Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

#### **Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

#### **Ingestion**

Clean mouth with water and drink afterwards plenty of water.

#### **Most important symptoms and effects**

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

#### **Notes to Physician**

Treat symptomatically

### 4. Fire-fighting measures

#### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.



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**Unsuitable Extinguishing Media** No information available

**Flash Point** 22°C/72°F

**Method -** No information available

**Autoignition Temperature** 404°C/760°F

**Explosion Limits**

**Upper** Not data available

**Lower** Not data available

**Oxidizing Properties** Not oxidizing

**Sensitivity to Mechanical Impact** Not information available

**Sensitivity to Static Discharge** Not information available

**Specific Hazards Arising from the Chemical**

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

**Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

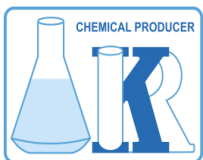
**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Diamond	Hazard	Value	Description
	Health	2	Material that, under emergency condition, can cause temporary incapacitation or residual injury.
	Flammability	3	Liquids and solid that can be ignited under almost all ambient temperature conditions, Materials produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions.
	Instability	0	Materials that themselves are normally stable, even under fire conditions.
	Special		

### 5. Ecological Information

n-Butyl acetate's production and use in the manufacturing of lacquers, artificial leather, photographic films, plastics, safety glass and as a solvent may result in its release to the environment through various waste streams. n-Butyl acetate occurs naturally in many fruits and plants and may be released into the environment as a plant volatile. If released to air, a vapor pressure of 11.5 mm Hg at 25 °C indicates n-butyl acetate will exist solely as a vapor in the atmosphere. Vapor-phase n-butyl acetate will be degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 3.2 days. n-Butyl acetate does not



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contain chromophores that absorb at wavelengths  $>290$  nm and, therefore, is not expected to be susceptible to direct Photolysis by sunlight. If released to soil, n-butyl acetate is expected to have very high mobility based upon an estimated Koc of 19. Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of  $2.81 \times 10^{-4}$  atm-cu m/mole. n-Butyl acetate may volatilize from dry soil surfaces based upon its vapor pressure. If released into water, n-butyl acetate is not expected to adsorb to suspended solids and sediment based upon the estimated Koc. 5-Day theoretical BOD values of 20.9%, 56.8% and 51.8% were measured for n-butyl acetate in river water, distilled water and seawater, respectively, indicating biodegradation in water may be an important fate process. Estimated volatilization half-lives for a model river and model lake are 6.5 hours and 5.3 days, respectively.

## 6. Handling and Storage

### Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammable area. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.

## 7. Physical and chemical properties

**Molecular Formula:**  $C_6H_{12}O_2$  /  $CH_3COO(CH_2)_3CH_3$

**Synonyms:** n-butyl acetate, butyl acetate, butyl ethanoate

**CAS Number:** 123-86-4

**Molecular Mass:**  $116.16 \text{ g. mol}^{-1}$

**Exact Mass:**  $116.083 \text{ g. mol}^{-1}$

**Flashpoint:**  $72^\circ\text{F}/22^\circ\text{C}$

**Boiling Point:**  $259.7^\circ\text{F}$  at 760 mmHg /  $126.1^\circ\text{C}$

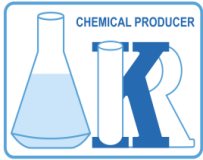
**Melting Point:**  $-108^\circ\text{F}$  /  $-78.0^\circ\text{C}$

**Vapour Pressure:** 10 mm Hg at  $68^\circ\text{F}$

**Water Solubility:** 0.68 g/100mL ( $20^\circ\text{C}$ )

**Density:**  $0.8825 \text{ g cm}^{-3}$

**Viscosity:** 0.685 mPa.s at  $25^\circ\text{C}$



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**Autoignition Temperature:** 404°C / 760°F

**Vapor Density:** 4 (Relative to Air)

**Odor:** Strong fruity odor

**Color/ Form:** Colorless, volatile liquid

## 8. Stability and reactivity

<b>Reactive Hazard</b>	None known, based on information available.
<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents, Strong acids, Strong bases.
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## 9. Toxicological information

### Acute Toxicity

#### Product Information

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-butyl acetate	LD50 = 10768 mg/kg ( Rat )	LD50 > 17600 mg/kg ( Rabbit )	LC50 = 0.74 mg/L ( Rat ) 4 h

**Toxicologically Synergistic Products** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Irritating to eyes

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Mutagenic Effects** No information available

**Reproductive Effects** No information available



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<b>Teratogenicity</b>	Not information available
<b>Aspiration hazard</b>	No information available
<b>Symptoms / effects, both acute and delayed</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Endocrine Disruptor Information</b>	No information available.
<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated.

### 10. Disposal considerations

<b>Waste Disposal Methods</b>	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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### 11. Transport information

<b>Fire or Explosion</b>	<b>HIGHLY FLAMMABLE:</b> Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a (P) may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water. /Butyl acetates/
<b>Health</b>	May cause toxic effects if inhaled or absorbed through skin. Inhalation or contact with material may irritate or burn skin and eyes. Fire will produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution. /Butyl acetates/



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### **Public Safety**

CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind, uphill and/or upstream. Ventilate closed spaces before entering. /Butyl acetates/

### **Protective Clothing**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection. /Butyl acetates/

**End of MSDS**