



## SAFETY DATA SHEET

### ISOBUTYL ACETATE

#### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: ISOBUTYL ACETATE

Recommended use: Chemical for industry

Manufacturer/Supplier: MODERN CHEMICAL Co.Ltd.

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#### 2. HAZARDS IDENTIFICATION

##### Label elements

Pictogram



Signal word

Danger

##### Hazard statement(s)

- 1.) Highly flammable liquid and vapour.
- 2.) Causes skin irritation.
- 3.) May be fatal if swallowed and enters airways.
- 4.) May cause drowsiness or dizziness.
- 5.) Toxic to aquatic life with long lasting effects.
- 6.) May damage the unborn child. Suspected of damaging fertility.



### Precautionary statement(s)

- 1.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- 2.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 3.) Avoid release to the environment.
- 4.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.
- 5.) IF IN EYES: Rinse cautiously with water for 15 minutes.
- 6.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym:** Acetate Acid isobutyl ester;Beta-methylpropyl ethanoate;2-Methyl-1-propyl acetate;

Ingredients	% (w/w)	CAS NO.
ISOBUTYL ACETATE	100	110-19-0

### 4. FIRST AID MEASURES

**General advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

**Skin contact:**

Wash off with soap and plenty of water. Consult a physician.

**Eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:**

**Do NOT induce vomiting.** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable Extinguishing Media**

No data available

**Specific hazards arising from Chemicals**

No data available

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.



## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions:** Do not let product enter drains.

### Methods and Material for Containment and Clean Up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling & Product Transfer:

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for Safe Storage & Unsuitable Materials:

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** TWA 150 ppm

**Appropriate Engineering Controls:** While handling a small amount of chemicals, use the local ventilation apparatus. While handling a great quantity of chemicals isolate the workers and work space.

### Individual Protection Measures

**Respiratory protection:** In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**Hand protection:** Imperious gloves composed of Butyl rubber, Saranex, or Viton is better.

**Eye protection:** Wear chemical goggles.

**Skin and body protections:** Coveralls working clothes and working boots composed of Butyl rubber, Saranex, or Viton.



**Hygiene measures:** Take off the clothes of pollution as quickly after the work. Forbid smoking or diet in the workplace. After dealing with the material, must wash hands completely. Keep the working place clean.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form, Color and Odor :</b> liquid, colourless characteristic	<b>Evaporation rate :</b> N/A
<b>Melting Point :</b> -99 °C	<b>Specific gravity :</b> 0.871-0.875 g/cm <sup>3</sup> at 20 °C
<b>pH :</b> N/A	<b>Solubility in water :</b> Soluble 0.67 g/l at 20 °C
<b>Boiling point :</b> 116-118 °C	<b>Viscosity :</b> 68 mPa.sec
<b>Vapour pressure :</b> 15 mmHg at 20 °C	<b>Vapour density :</b> N/A
<b>Lower explosive limits:</b> 1.3 %Vol	<b>Upper explosive limits:</b> 10.5%Vol
<b>Auto-ignition temperature:</b> 423°C	<b>Flash Point:</b> 22°C
<b>Odour threshold:</b> N/A	<b>Flammability (solid, gas):</b> N/A
<b>Decomposition temperature:</b> N/A	<b>Solubility in other solvents:</b> N/A
<b>n-octanol/water partition coefficient (log P<sub>ow</sub>):</b> N/A	

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable.

**Reactions:** No data available

**Possibility of Hazardous Reactions:** no data available

**Conditions to avoid:** Heat, flames and sparks.

**Materials to avoid:** Strong oxidizing agents and strong bases

**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50 (oral, rat): 13400 mg/kg

**Sensitization:** May be harmful if inhaled. May cause respiratory tract irritation.  
May be harmful if swallowed. May be harmful if absorbed through skin.  
Causes eye irritation.

**Chronic toxicity:** No data available

**Further toxicological information:** No data available



## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae No data available.

Toxicity to bacteria No data available.

Biodegradability Remarks: No data available.

Bioaccumulative potential: No data available.

Mobility: No data available.

Affected in any other way: No data available.

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Container Disposal:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### ADR/RID

UN-No: 1213 Class: 3 Packing group: II

Proper shipping name: ISOBUTYL ACETATE

### IMDG

UN-No: 1213 Class: 3 Packing group: II

EMS-No: F-E, S-D Marine pollutant: No

Proper shipping name: ISOBUTYL ACETATE

Marine pollutant: No

### IATA

UN-No: 1213 Class: 3 Packing group: II

Proper shipping name: ISOBUTYL ACETATE



## 15. REGULATORY INFORMATION

### GHS - Labelling:

#### Hazard statement(s)

H226 Flammable liquid and vapour.

#### Precautionary statement(s)

none

#### Hazard symbol(s)

none

#### R-phrases(s)

R10 Flammable.

#### S-phrases(s)

None

## 16. OTHER INFORMATION

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