



ACP

# Asiatic Chemicals Pakistan

Building the Partnership, it's Asiatic Business Principle!

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## 2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**  
110-19-0 isobutyl acetate
- **Identification number(s)**
- **EINECS Number:** 203-745-1
- **EU Number:** 607-026-00-7

## 3 Hazards identification

- **Hazard description:**



*F Highly flammable*

- **Information concerning particular hazards for human and environment:**  
*At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.*  
*R 11 Highly flammable.*  
*R 66 Repeated exposure may cause skin dryness or cracking.*

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Protective equipment:** *No special measures required.*

## 6 Accidental release measures

- **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name:** isobutyl acetate

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- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

#### 110-19-0 isobutyl acetate

PEL (USA)	700 mg/m <sup>3</sup> , 150 ppm
REL (USA)	700 mg/m <sup>3</sup> , 150 ppm
TLV (USA)	713 mg/m <sup>3</sup> , 150 ppm
WEL (Great Britain)	Short-term value: 903 mg/m <sup>3</sup> , 187 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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# Material Safety Data Sheet

## According to 91/155 EEC

Trade name: isobutyl acetate

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· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· **General Information**

**Form:** Fluid  
**Colour:** Colourless  
**Odour:** Fruit-like

· **Change in condition**

**Melting point/Melting range:** -98.85°C  
**Boiling point/Boiling range:** 117.2°C

· **Flash point:** 18°C

· **Ignition temperature:** 405°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

**Lower:** 2.4 Vol %  
**Upper:** 10.5 Vol %

· **Vapour pressure at 20°C:** 20 hPa

· **Density at 20°C:** 0.8747 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 7 g/l

· **pH-value (4 g/l) at 20°C:** 6

· **Viscosity:**

**Dynamic:** 0.96 mPas

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral	LD50	13400 mg/kg (rat)
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· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name:** isobutyl acetate

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· **Sensitization:** No sensitizing effects known.

### 12 Ecological information

· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1213
- **Packaging group:** II
- **Hazard label:** 3
- **Description of goods:** 1213 ISOBUTYL ACETATE

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1213
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-D
- **Proper shipping name:** ISOBUTYL ACETATE

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1213
- **Label:** 3

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# Material Safety Data Sheet

According to 91/155 EEC

**Trade name:** *isobutyl acetate*

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- **Packaging group:** II
- **Proper shipping name:** ISOBUTYL ACETATE

## 15 Regulatory information

- **Labelling according to EU guidelines:**  
*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*
- **Code letter and hazard designation of product:**  
*F Highly flammable*
- **Risk phrases:**  
*11 Highly flammable.*  
*66 Repeated exposure may cause skin dryness or cracking.*
- **Safety phrases:**  
*2 Keep out of the reach of children.*  
*16 Keep away from sources of ignition - No smoking.*  
*23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*  
*25 Avoid contact with eyes.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing MSDS:** *Product safety department.*
- **Contact:** *Terminal Manager*

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