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1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: isopropyl acetate

Manufacturer/Supplier:

Asiatic Chemicals Pakistan

Address

30-Mussa Market 2nd Floor, 0092-320-4320301

Tel No 8892-21-32422537 Opp Sindh Madarsah Email

Mobile

Fax No Shahrah-e-Liaquat asiatic-petro@cyber.net.pk

0092-21-3241554 asiatic@asiatic.com.pk



2 Composition/information on ingredients

· Chemical characterization:

· CAS No. Description 108-21-4 isopropyl acetate

· Identification number(s)

· EINECS Number: 203-561-1

· Index number: 607-024-00-6

3 Hazards identification

· Hazard description:





Xi Irritant 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 36 Irritating to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

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. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

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· Protective equipment: No special measures required.

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6 Accidental release measures

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

Dilute with plenty of water.

Ensure adequate ventilation.

7 Handling and storage

- · Handling:
- · Information for safe handling:

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.

· 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:

108-21-4 isopropyl acetate

PEL(USA) 950 mg/m^3 , 250 ppm

TLV (USA) Short-term value: 836 mg/m³, 200 ppm

Long-term value: 418 mg/m³, 100 ppm

WEL (Great Britain) Short-term value: 849 mg/m³, 200 ppm

- · Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Respiratory protection: Not required.
- · 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.

· 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:	
Boiling point/Boiling range:	88.8°C
· Flash point:	4°C
· Ignition temperature:	460°C
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.8 Vol %
Upper:	8 Vol %
· Vapour pressure at 20°C:	61 hPa
· Density at 20°C:	0.87 g/cm^3
· Solubility in / Miscibility with water at 20°C:	18.0 a./
water at 20 C:	18.9 g/l

10 Stability and reactivity

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

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· Dangerous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values relevant for classification:

Oral LD50 3000 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · 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: 1220
Packaging group: II
Hazard label: 3

· Description of goods: 1220 ISOPROPYL ACETATE

· Maritime transport IMDG:



· IMDG Class: 3
 · UN Number: 1220
 · Label 3

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· Packaging group: II

· EMS Number: F-E,S-D

· Marine pollutant: No

· Proper shipping name: ISOPROPYL ACETATE

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: · UN/ID Number: 1220 · Label 3 II· Packaging group:

· Proper shipping name: ISOPROPYL 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:





Xi Irritant

F Highly flammable

- · Risk phrases:
- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.
- · Safety phrases:
- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29 Do not empty into drains.

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: Mr. Menon