

# Safety Data Sheet

## According to 91/155 EEC

Printing date 24.06.2009

Revision: 23.06.2009

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

· **Product details**

· **Trade name:** 2-ethyl hexanol

**Manufacturer/Supplier:**

Asiatic Chemicals Pakistan



**Address**

30-Mussa Market 2nd Floor,

Opp Sindh Madrasah

Shakrah-e-Liaquat

**Mobile**

0092-320-4320301

**Email**

asiatic-petro@cyber.net.pk

asiatic@asiatic.com.pk

**Tel No**

0092-21-32422537

**Fax No**

0092-21-3241554

### 2 Composition/information on ingredients

· **Chemical characterization:**

· **CAS No. Description**

104-76-7 2-ethylhexan-1-ol

· **Identification number(s)**

· **EINECS Number:** 203-234-3

### 3 Hazards identification

· **Hazard description:**



Xi Irritant

· **Information concerning particular hazards for human and environment:**

R 36/38 Irritating to eyes and skin.

### 4 First aid measures

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Protective equipment:** No special measures required.

### 6 Accidental release measures

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

(Contd. on page 2)

UAE

# Safety Data Sheet

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(Contd. of page 1)

· **Measures for cleaning/collecting:** Dilute with plenty of water.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special requirement
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 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:** Not required.
- **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  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
- **Protection of hands:**



Protective gloves

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

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(Contd. on page 3)

# Safety Data Sheet

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(Contd. of page 2)

### 9 Physical and chemical properties

#### · General Information

|                |                |
|----------------|----------------|
| <b>Form:</b>   | Fluid          |
| <b>Colour:</b> | Colourless     |
| <b>Odour:</b>  | Characteristic |

#### · Change in condition

|                                     |         |
|-------------------------------------|---------|
| <b>Melting point/Melting range:</b> | -75°C   |
| <b>Boiling point/Boiling range:</b> | 184.7°C |

|                       |      |
|-----------------------|------|
| <b>· Flash point:</b> | 76°C |
|-----------------------|------|

|                                |       |
|--------------------------------|-------|
| <b>· Ignition temperature:</b> | 250°C |
|--------------------------------|-------|

|                               |   |
|-------------------------------|---|
| <b>· Danger of explosion:</b> | Product does not present an explosion hazard. |
|-------------------------------|---|

#### · Explosion limits:

|               |            |
|---------------|------------|
| <b>Lower:</b> | 1.8 Vol %  |
| <b>Upper:</b> | 12.7 Vol % |

|                                   |         |
|-----------------------------------|---------|
| <b>· Vapour pressure at 20°C:</b> | 0.4 hPa |
|-----------------------------------|---------|

|                           |                          |
|---------------------------|--------------------------|
| <b>· Density at 20°C:</b> | 0.8328 g/cm <sup>3</sup> |
|---------------------------|--------------------------|

|  |       |
|--|-------|
| <b>· Solubility in / Miscibility with water at 20°C:</b> | 1 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.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

#### · Acute toxicity:

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

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 2049 mg/kg (rat)    |
| Dermal | LD50 | 1970 mg/kg (rabbit) |

#### · Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

### 12 Ecological information

#### · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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(Contd. on page 4)

# Safety Data Sheet

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Trade name: 2-ethyl hexanol

(Contd. of page 3)

### 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:** -

- **Maritime transport IMDG:**



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label** 9
- **Packaging group:** III
- **Marine pollutant:** Yes (P)  
Symbol (fish and tree)
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexan-1-ol)

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



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexan-1-ol)

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

(Contd. on page 5)

UAE

# Safety Data Sheet

## According to 91/155 EEC

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(Contd. of page 4)

· **Code letter and hazard designation of product:**



Xi Irritant

· **Risk phrases:**

36/38 Irritating to eyes and skin.

### 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**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*P: Marine Pollutant*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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