

# Safety Data Sheet

## According to 91/155 EEC

Printing date 23.06.2009

Revision: 23.06.2009

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

· **Product details**

· **Trade name:** acrylic acid

**Manufacturer/Supplier:**

Asiatic Chemicals Pakistan



**Address**

30-Mussa Market 2nd Floor,

Opp Sindh Madarsah

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**

79-10-7 acrylic acid

· **Identification number(s)**

· **EINECS Number:** 201-177-9

· **Index number:** 607-061-00-8

### 3 Hazards identification

· **Hazard description:**



C Corrosive

N Dangerous for the environment

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

R 10 Flammable.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 35 Causes severe burns.

R 50 Very toxic to aquatic organisms.

### 4 First aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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. Then consult a doctor.

· **After swallowing:**

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 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.

(Contd. on page 2)

# Safety Data Sheet

## According to 91/155 EEC

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Trade name: acrylic acid

(Contd. of page 1)

- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
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).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **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:** 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:**

#### 79-10-7 acrylic acid

|           |                                       |
|-----------|---------------------------------------|
| REL (USA) | 6 mg/m <sup>3</sup> , 2 ppm<br>Skin   |
| TLV (USA) | 5.9 mg/m <sup>3</sup> , 2 ppm<br>Skin |

- **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:**  
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:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 3)

# Safety Data Sheet

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**Trade name: acrylic acid**

(Contd. of page 2)

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**

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

- **Change in condition**

|                                     |       |
|-------------------------------------|-------|
| <b>Melting point/Melting range:</b> | 13°C  |
| <b>Boiling point/Boiling range:</b> | 141°C |

- **Flash point:** 54°C

- **Ignition temperature:** 374°C

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

- **Explosion limits:**

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 5.3 Vol % |
| <b>Upper:</b> | 26 Vol %  |

- **Vapour pressure at 20°C:** 4.3 hPa

- **Density at 20°C:** 1.0511 g/cm<sup>3</sup>

- **Solubility in / Miscibility with water:** Fully miscible.

### 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 | 250 mg/kg (rat)    |
| Dermal | LD50 | 280 mg/kg (rabbit) |

(Contd. on page 4)

# Safety Data Sheet

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Revision: 23.06.2009

**Trade name: acrylic acid**

(Contd. of page 3)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **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.  
Must not reach sewage water or drainage ditch undiluted or unneutralized.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms

### 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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

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



- **ADR/RID class:** 8 Corrosive substances.
- **Danger code (Kemler):** 839
- **UN-Number:** 2218
- **Packaging group:** II
- **Hazard label:** 8+3
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 2218 ACRYLIC ACID, STABILIZED

- **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 2218
- **Label:** 8+3
- **Packaging group:** II
- **EMS Number:** F-E,S-C

(Contd. on page 5)

# Safety Data Sheet

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(Contd. of page 4)

- **Marine pollutant:** No
- **Proper shipping name:** ACRYLIC ACID, STABILIZED

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



- **ICAO/IATA Class:** 8
- **UNID Number:** 2218
- **Label:** 8+3
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** II
- **Proper shipping name:** ACRYLIC ACID, STABILIZED

- **Environmental hazards:** Environmentally hazardous substance, liquid; Marine Pollutant

### 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:**



C Corrosive  
N Dangerous for the environment

- **Risk phrases:**

10 Flammable.  
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
35 Causes severe burns.  
50 Very toxic to aquatic organisms.

- **Safety phrases:**

1/2 Keep locked up and out of the reach of children.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 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