Material Safety Data Sheet



ACRYLIC ACID 99%

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Product Code : 11255

1 Identification of the substance/mixture and of the company/undertaking
<u>1. Identification of the substance/mixture and of the company/undertaking</u> 1.1. Product identifier
Trade name : ACRYLIC ACID 99%
Product code : 11255
Identification of the product : Acrylic Acid CAS No :79-10-7
1.2. Relevant identified uses of the substance or mixture and uses advised against
Use : Industrial. For professional use only.
1.3. Details of the supplier of the safety data sheet
Company identification : MOLYCHEM
Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel:
+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,
Kulgaon, Badlapur (E), DistThane-421 503.
1.4. Emergency telephone number
Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).
1.4. Emergency telephone number
Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)
2. Hazards identification
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flammable liquids, H226
Category 3
Acute toxicity (oral), H302
Category 4
Acute toxicity (dermal), H312
Category 4
Acute toxicity (inhal.), H331
Category 3
Skin corrosion/irritation, H314
Category 1A
Specific target organ
toxicity — Single
exposure, Category 3,
Respiratory tract irritation H335
Hazardous to the aquatic
environment — Acute H400

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Hazard, Category 1

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display

Symbol(s): Highly flammable

Xn: Harmful

C: Corrosive

N : Dangerous for the environment



R Phrase(s):

R10. Flammable.

R35. Cause severe burns.

R50. Very toxic to aquatic organisms.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

S Phrase(s): S26. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

S45. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61: avoid release to the environment . refer to special instruction/safety data sheets. $S_{26}^{27/20}$. We arguitable protoction slothing and plause & avoid for a motocting

S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.

Hazard pictograms



Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapour.

H302+H312 - Harmful if swallowed or in contact with skin

H314 - Causes severe skin burns and eye damage.

H331 - Toxic if inhaled.

H335 - May cause respiratory irritation.

H400 - Very toxic to aquatic life.

Precautionary statements : P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

No additional information available

3. Composition/information on ingredients

3.1. Substances : ACRYLIC ACID

CAS-No.: 79-10-7

Substance.

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

First-aid measures after skin contact : Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation. Toxic if inhaled. Symptoms/effects after skin contact : Harmful in contact with skin.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Unsuitable extinguishing media : Do not use extinguishing media containing water. **5.2. Special hazards arising from the substance or mixture**

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Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6.Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Very toxic to aquatic life.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Collect spillage.

6.4. Reference to other sections

No additional information available

7. Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Do not breathe vapours. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage conditions : Keep container tightly closed. Store in a well-ventilated place.

Incompatible materials : Heat sources.

Packaging materials : Do not store in corrodable metal.

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7.3. Specific end use(s)

No additional information available.

8. Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties **Odour threshold** : No data available **pH** : 1 - 2 **Relative evaporation rate (butylacetate=1)**:1 **Melting point** : 13 °C **Freezing point** : No data available **Boiling point** : 139 °C Flash point : 46 °C Auto-ignition temperature : 438 °C **Decomposition temperature** : No data available Flammability (solid, gas) : Flammable liquid and vapour. Vapour pressure : 5 hPa at 20 °C Relative vapour density at 20 °C : 2.49 **Relative density** : No data available **Density** : 1.051 g/cm³ **Solubility** : Water: Completely miscible Log Pow : 0.46 Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosive properties** : No data available **Oxidising properties** : No data available **Explosive limits** : 0.02 - 0.137 vol % 9.2. Other information No additional information available

<u>10. Stability and reactivity</u>

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10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Corrosive vapours.

<u>11. Toxicological information</u>

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled. Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 1 - 2

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 1 - 2

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

Additional information : Corrosive to the respiratory tract.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms: Harmful if swallowed. Harmful in contact with skin.

12. Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Log Pow 0.46

12.4. Mobility in soil

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No additional information available **12.5. Results of PBT and vPvB assessment** No additional information available **12.6. Other adverse effects** No additional information available

<u>13.Disposal considerations</u>

13.1. Waste treatment methods

Product/Packaging disposal recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapours are flammable.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2218 UN-No. (IMDG) : 2218 UN-No. (IATA) : 2218 UN-No. (ADN) : 2218 UN-No. (RID) : 2218

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ACRYLIC ACID, STABILIZED Proper Shipping Name (IMDG) : ACRYLIC ACID, STABILIZED Proper Shipping Name (IATA) : Acrylic acid, stabilized Proper Shipping Name (ADN) : ACRYLIC ACID, STABILIZED Proper Shipping Name (RID) : ACRYLIC ACID, STABILIZED Transport document description (ADR) : UN 2218 ACRYLIC ACID, STABILIZED, 8 (3), II, (D/E), ENVIRONMENTALLY HAZARDOUS Transport document description (IMDG) : UN 2218 ACRYLIC ACID, STABILIZED, 8 (3). II. MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (54°C o.c.) Transport document description (IATA) : UN 2218 Acrylic acid, stabilized, 8 (3), II, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN) : UN 2218 ACRYLIC ACID, STABILIZED, 8 (3), II, ENVIRONMENTALLY HAZARDOUS



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Transport document description (RID) : UN 2218 ACRYLIC ACID, STABILIZED, 8 (3), II, ENVIRONMENTALLY HAZARDOUS **14.3.** Transport hazard class(es) **ADR:** Transport hazard class(es) (ADR) : 8 (3) Danger labels (ADR): 8, 3 **IMDG:** Transport hazard class(es) (IMDG) : 8 (3) Danger labels (IMDG): 8, 3 **IATA:** Transport hazard class(es) (IATA) : 8 (3) Hazard labels (IATA): 8, 3 **ADN** : Transport hazard class(es) (ADN) : 8 (3) Danger labels (ADN): 8, 3 **RID**: Transport hazard class(es) (RID): 8 (3) Danger labels (RID): 8, 3 14.4. Packing group Packing group (ADR) : II Packing group (IMDG) : II Packing group (IATA) : II Packing group (ADN) : II Packing group (RID) : II 14.5. Environmental hazards Dangerous for the environment : Yes Marine pollutant : Yes Other information : No supplementary information available 14.6. Special precautions for user **Overland transport** Classification code (ADR) : CF1 Limited quantities (ADR): 11 Excepted quantities (ADR) : E2 Packing instructions (ADR): P001, IBC02 Mixed packing provisions (ADR) : MP15 Portable tank and bulk container instructions (ADR): T7 Portable tank and bulk container special provisions (ADR) : TP2 Tank code (ADR) : L4BN Vehicle for tank carriage : FL Transport category (ADR) : 2 Special provisions for carriage – Operation (ADR) : S2 Hazard identification number (Kemler No.): 839 Orange plates : Tunnel restriction code (ADR) : D/E

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EAC code : •2W APP code : A(fl)Transport by sea Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG): T7 Tank special provisions (IMDG) : TP2 EmS-No. (Fire) : F-E EmS-No. (Spillage) : S-C Stowage category (IMDG) : C Stowage and handling (IMDG) : SW1, SW2 Flash point (IMDG) : 54°C o.c. MFAG-No: 132P Air transport PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y840 PCA limited quantity max net quantity (IATA): 0.5L PCA packing instructions (IATA): 851 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA): 855 CAO max net quantity (IATA) : 30L ERG code (IATA): 8F **Inland waterway transport** Classification code (ADN) : CF1 Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 Carriage permitted (ADN) : T Equipment required (ADN) : PP, EP, EX, A Ventilation (ADN) : VE01 Number of blue cones/lights (ADN): 1 **Rail transport** Classification code (RID) : CF1 Limited quantities (RID) : 1L Excepted quantities (RID) : E2 Packing instructions (RID) : P001, IBC02 Mixed packing provisions (RID) : MP15 Portable tank and bulk container instructions (RID): T7

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Portable tank and bulk container special provisions (RID) : TP2 Tank codes for RID tanks (RID) : L4BN Transport category (RID): 2 Colis express (express parcels) (RID) : CE6 Hazard identification number (RID): 839 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable **15. Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations No REACH Annex XVII restrictions ACRYLIC ACID is not on the REACH Candidate List ACRYLIC ACID is not on the REACH Annex XIV List **15.1.2.** National regulations Germany Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV; ID No. 11) 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) **Netherlands** SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen -Vruchtbaarheid: The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: The substance is not listed Denmark Class for fire hazard : Class II-1 Store unit : 5 liter Classification remarks : R10 <H226;H302+H312;H314;H331;H335;H400>; Emergency management guidelines for the storage of flammable liquids must be followed Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

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Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

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