

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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MATERIAL SAFETY DATA SHEET

Product Name	ACRYLIC ACID 99%
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ACRYLIC ACID 99%

Product code : A0064

Identification of the product ACRYLIC ACID 99%

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: CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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2. Hazards identification -DSD

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,

H314Category 1A

Specific target

organ toxicity —

Single exposure,

Category 3,

Respiratory tract irritation

H335Hazardous to the

aquatic environment —

Acute H400

Hazard, Category 1

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC[DPD]

Adverse physicochemical, human health and environmental effects

No additional information available

2.2Label element

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

Symbol(s):

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Xn: Harmful

C: Corrosive

N : Dangerous for the environment

Highly flammable



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 advice.

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.

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

Hazard pictograms



Signal word - Danger

Hazard statements : H225 - Highly flammable liquid and vapour.

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.

P273 - Avoid release to the environment.

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

Substance / Preparation: ACRYLIC ACID 99%

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. Fire-fighting 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 Specific hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

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

5.3 Advice for fire-fighters

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.

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

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.

7.3 Specific end use(s)

No additional information available

8. Exposure controls/personal protection

8.1 Control parameter

No additional information available

8.2 Exposure control

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

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

10. Stability and reactivity

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. Direct sunlight.

10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

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

11. Toxicological information

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: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No additional information available

12.3 Bioaccumulative potential

Log poe 0.46

12.4 Mobility in soil

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

13. Disposal considerations

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

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

14.4Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

14.5Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6Special 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

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

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



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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

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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End of document

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