

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

Product Code: 00059

Molecular Formula: $C_3H_4O_2$

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Substance
Trade name	:	Acrylic Acid 98% For Synthesis
EC-No.	:	201-177-9
CAS No	:	79-10-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.
N-226 Near Kumbhavali Naka
Tarapur MIDC, Boisar-401 506
Palghar, Maharashtra
Telephone : +91 7400096089
Email: export@chemnovo.in

1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	H226
Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 3	H331
Skin corrosion/irritation, Category 1A	H314
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

Full text of H statements : see section 16

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

Xn; R20/21/22

C; R35

N; R50

R10

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS05

GHS06

GHS09

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	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 (CLP)	:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. 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

SECTION 3: Composition/information on ingredients

3.1. Substance

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CAS-No.: 79-10-7

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Full text of R- and H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 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.

SECTION 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

Fire hazard : Flammable liquid and vapour.
Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighter

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

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		
Avoid release to the environment.		
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		

SECTION 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

SECTION 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 safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	Wear respiratory protection.

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Molecular mass	:	72.06 g/mol
Colour	:	Clear Colorless
Odour	:	acrid odor.
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/cm ³
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

SECTION 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. Heat. Sparks.

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ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 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
Specific target organ toxicity (single exposure)	:	May cause respiratory irritation.
Additional information	:	Corrosive to the respiratory tract
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Harmful if swallowed. Harmful in contact with skin.

SECTION 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

ACRYLIC ACID 98% FOR SYNTHESIS (79-10-7)	
Log Pow	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

SECTION 13: Disposal considerations

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ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

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.

SECTION 14: Transport information

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

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
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
	:	



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CAS-No.: 79-10-7

Chemnovo

DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

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



AND

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



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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)	:	1I
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	:	

839**2218**

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

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

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)	:	Cft
Limited quantities (ADN)	:	1 L
Excepted quantities (ADN)	:	E2
Carriage permitted (AND)	:	T
Equipment required (ADN)	:	PP, EP, EX, A
Ventilation (ADN)	:	Ve01
Number of blue cones/lights (ADN)	:	1
- Rail transport		
Classification code (RID)	:	Cft
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

SECTION 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

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ACRYLIC ACID 98% FOR SYNTHESIS

CAS-No.: 79-10-7

ACRYLIC ACID 98% FOR SYNTHESIS is not on the REACH Candidate List

ACRYLIC ACID 98% FOR SYNTHESIS 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 : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Ontwikkeling

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

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful 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.
R10	Flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R35	Causes severe burns
R50	Very toxic to aquatic organisms
C	Corrosive
N	Dangerous for the environment
Xn	Harmful

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemnovo.in for additional terms and conditions of sale.

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