Multichem Specialities Pvt. Ltd.
1215, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 2243432121
E: multichem@multichemindia.com
www.multichemindia.com

SAFETY DATA SHEET

ACRYLIC ACID

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

1.1 Product identifier:	
CAS Number:	79-10-7
EC number:	201-177-9
1.2 SYNONYMS:	• Prop-2-enoic acid • Ethene, carboxylic acid • Propenoic acid • Vinylacetic acid • Acroleic acid

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquid (Category 3) Acute toxicity,inhalation(Category 3) Acute toxicity,oral (Category 4) Acute toxicity,dermal (Category 4) Serious eye damage/ eye irritation(category 1) Skin corrosion/ irritation (Category 1B) Hazardous to the aquatic environment (Acute toxicity, Category 1) Hazardous to the aquatic environment (Chronic toxicity, Category 1)
Hazard Pictograms:	
Signal Word:	Danger

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Hazard statements:	**H226:** Flammable liquid and vapor. **H314:** Causes severe skin burns and eye damage. **H331:** Toxic if inhaled. **H302:** Harmful if swallowed. **H311:** Toxic in contact with skin. **H400:** Very toxic to aquatic life. **H410:** Very toxic to aquatic life with long-lasting effects.
Precautionary Statements:	**P210:** Keep away from heat, sparks, open flames, and hot surfaces — No smoking. **P280:** Wear protective gloves/protective clothing/eye protection/face protection. **P273:** Avoid release to the environment. **P261:** Avoid breathing dust/fume/gas/mist/vapors/spray. **P301 + P310:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. **P304 + P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **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 or doctor/physician if any symptoms occur. **P363:** Wash contaminated clothing before reuse. **P405:** Store locked up. **P403 + P235:** Store in a well-ventilated place. Keep cool.

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	P501: Dispose of contents/container in accordance with local/regional/ national/international regulations**.**
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, shortness of breath, and potentially severe damage to the respiratory system.
Ingestion:	can cause nausea, vomiting, abdominal pain, and damage to the digestive tract, potentially leading to severe toxicity.
Skin Contact:	can cause severe irritation, burns, and damage to the skin, potentially leading to chemical burns.
Eye contact:	can cause severe irritation, redness, pain, and potential eye damage.
Chronic Exposure:	can lead to long-term respiratory issues, skin sensitization, and potential damage to the liver or kidneys, along with increased risk of developing dermatitis or other skin conditions.
Aggravation of pre-existing conditions:	may aggravate pre-existing respiratory conditions, such as asthma or bronchitis, as well as skin disorders like eczema, leading to increased irritation or sensitivity.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 79-10-7 ACRYLIC ACID
Identification number(s):	EC number: 201-177-9

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SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause severe respiratory irritation, skin burns, eye damage, and gastrointestinal distress, while chronic exposure may lead to long-term respiratory issues, skin sensitization, and potential liver or kidney damage.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Formation of explosive dust/air mixtures is possible. Vapors are heavier than air and may spread along floors. Combustible.

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5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material

	Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.

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Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless
Odour:	Pungent, acrid odor
pH-value:	No data available
Melting point/Melting range:	13°C
Boiling point/Boiling range:	139°C
Flammability (solid, gaseous):	Highly flammable
Ignition temperature:	410°C
Decomposition temperature:	220°C
Self-igniting:	No
Flash point:	54°C
Danger of explosion:	No
Explosion limits: Lower:	2.6%
Explosion limits: Upper:	12.5%
Vapour pressure:	5.33 Pa at 20°C
Density at 20 °C:	1.05
Relative density:	1.05
Vapour density:	2.5
Evaporation rate:	3.6

Solubility in / Miscibility with-·water at 20 °C:	Readily miscible
Partition coefficient:(n-octanol/water)	0.46
Viscosity:	0.935 mPa.s at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials.
10.4 Conditions to avoid	Avoid temperatures below recommended storage temperature. Heating.
10.5 Incompatible materials	Strong oxidizing agents, Strong bases, Reducing agents, Alkaline metals, Ammonia and amines,
10.6 Hazardous decomposition products	Carbon dioxides, carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat) : 1500 mg/kg **LD50** (Dermal, Rabbit) : no data available **LC50** (Inhalation Rat) : 11 mg/l (4 hr)
Skin corrosion/Irritation:	Causes skin burns
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available

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Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	May cause irritation to respiratory system.
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 27 mg/l (96hr) EC50(daphnia):95 mg/l (48hr) EC50(algae): 0.03mg/l (72hr)
12.2 Persistence and degradability:	readily biodegradable and persistent
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Isopropyl alcohol, ethanol, acetone, Sodium Bicarbonate.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2218
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	ACRYLIC ACID
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8
14.4 Packing group · ADR, IMDG, IATA:	2

14.5 Environmental hazards:	Harmful for aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substance as flammable liquids.
Named dangerous substances:	This substance is listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.