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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

METHACRYLIC ACID

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

1.1 Product identifier:	
CAS Number:	79-41-4
EC number:	201-204-4
1.2 SYNONYMS:	• 2-Methylpropenoic acid • Methacrylate acid • Methyl acrylic acid • α-Methylacrylic 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 Acute toxicity, oral (Category 4) Acute toxicity, inhalation (Category 4) Acute toxicity, Dermal (Category 3) Skin corrosion (Category 1A) Serious eye damage (Category 1) Specific target organ toxicity - single exposure, Respiratory system (Category 3)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H302 + H332:** Harmful if swallowed or if inhaled. **H311:** Toxic in contact with skin.

	H314: Causes severe skin burns and eye damage. **H335:** May cause respiratory irritation.
Precautionary Statements:	**P261:** Avoid breathing mist or vapors. **P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection. **P301 + P312:** IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. **P303 + P361 + P353:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. **P304 + P340 + P310:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor**.** **P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, shortness of breath, and potential damage to the respiratory tract.
Ingestion:	can cause gastrointestinal irritation, nausea, vomiting, abdominal pain, and potentially more severe effects such as metabolic acidosis.
Skin Contact:	can cause irritation, redness, blistering, and chemical burns, especially with prolonged exposure.

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Eye contact:	can cause severe irritation, redness, pain, and potential damage to the cornea, leading to impaired vision
Chronic Exposure:	may lead to skin sensitization, respiratory issues, liver or kidney damage, and potential long-term irritation to the eyes and mucous membranes.
Aggravation of pre-existing conditions:	can aggravate pre-existing conditions such as asthma, respiratory disorders, skin conditions (like eczema), or eye disorders due to its irritant properties.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 79-41-4 METHAACRYLIC ACID
Identification number(s):	EC number: 201-204-4

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 immediately .Wash with plenty of 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 respiratory irritation, skin burns, eye damage, and gastrointestinal distress, while delayed effects may include persistent skin sensitization, respiratory issues, and corneal 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:	Carbon oxides.
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. Keep away from moisture.
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

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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.
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:	Acrid, pungent odor
pH-value:	3
Melting point/Melting range:	-85°C

Boiling point/Boiling range:	160°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	485°C
Decomposition temperature:	150°C
Self-igniting:	None
Flash point:	52°C
Danger of explosion:	None
Explosion limits: Lower:	2.0%
Explosion limits: Upper:	10%
Vapour pressure:	2.2 kPa at 25°C
Density at 20 °C:	1.39 g/cm³
Relative density:	1.39
Vapour density:	3.3
Evaporation rate:	No data available
Solubility in / Miscibility with-·water at 20 °C:	Readily Soluble
Partition coefficient:(n-octanol/water)	0.92
Viscosity:	0.658 cP at 25°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Can undergo polymerization in presence of light, heat and peroxides
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Polymerization reaction may occur if contact with heat, light or peroxides. Avoid contact with metals such as aluminum, magnesium, and zinc.
10.4 Conditions to avoid	Open flames, light moisture, peroxides.
10.5 Incompatible materials	Strong oxidizing agents, strong acids, strong bases, and reducing agents.
10.6 Hazardous decomposition products	Carbon monoxides, carbon dioxide, acrolein.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 1.320 mg/kg **LD50** (Dermal, Rabbit): 300 mg/kg **LC50** (Inhalation Rat): 7.1 mg/l (4 hr)
Skin corrosion/Irritation:	Causes severe skin burns
Serious eye damage/irritation:	Causes serious eye damage
Respiratory damage/irritation:	Can cause respiratory irritation
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	May cause respiratory irritation
Specific target organ toxicity - repeated exposure:	No data available
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): no data available EC50(daphnia): no data available ErC50(algae): no data available
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

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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, mild soap or detergents, sodium bicarbonate, diluted sodium hydroxide, sand.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2531
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	METHACRYLIC ACID
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	None
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 substances 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 not been carried out.

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 limitations of our

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