Printing date 06/14/2024

Reviewed on 06/14/2024

Product identifier Trade name: <u>Methacrylic Acid, Stabilized</u>	
Article number: M2711	
CAS Number:	
79-41-4 EC number:	
201-204-4	AQUA
Index number:	SOLUTIONS
607-088-00-5	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Aqua Solutions, Inc.	
6913 Highway 225	
DEER PARK, TX 77536	
USA 800-256-2586	
Information department:	
Technical Coordinator	
Sherman Nelson shermann@aquasolutions.org	
<i>Emergency telephone number:</i> <i>Chemtrec:</i> 800-424-9300	
<i>Canutec:</i> 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS06 Skull and crossbones	
$\sim$	
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
GHS05 Corrosion	
Shin Comparing 14	11214 Causes source ship huma and and damage
Skin Corrosion 1A Eye Damage 1	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
GHS07	
Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
	H335 May cause respiratory irritation.
Specific Target Organ Toxicity - Single Exposure 3	
Specific Target Organ Toxicity - Single Exposure 3 Flammable Liquids 4	H227 Combustible liquid.

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Methacrylic Acid, Stabilized

(Contd. of page 1)



(Contd. on page 3)

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Methacrylic Acid, Stabilized

(Contd. of page 2)

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

CAS: 79-41-4 Methacrylic acid

- · Identification number(s)
- EC number: 201-204-4
- · Index number: 607-088-00-5

#### **4** First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- *Immediately call a doctor.*

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
  Environmental precautions: Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.
- Dispose contaminated material as waste according to section 13.

*Ensure adequate ventilation.* 

(Contd. on page 4)

US

Printing date 06/14/2024

Reviewed on 06/14/2024

#### Trade name: Methacrylic Acid, Stabilized

(Contd. of page 3)

- · Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- · PAC-1: 6.7 ppm
- · PAC-2: 61 ppm
- · PAC-3: 220 ppm

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

CAS: 79-41-4 Methacrylic acid

REL Long-term value: 70 mg/m<sup>3</sup>, 20 ppm Skin

TLV Long-term value: 20 ppm

• Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • **Protection of hands:** 

Pro

Protective gloves

(Contd. on page 5)

<sup>-</sup> US

#### Printing date 06/14/2024

Reviewed on 06/14/2024

#### Trade name: Methacrylic Acid, Stabilized

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

## 9 Physical and chemical properties

General Information Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Rotten	
Odor threshold:	Not determined.	
pH-value:	2-2.2	
Change in condition		
Melting point/Melting range:	16 °C (60.8 °F)	
<b>Boiling point/Boiling range:</b>	163 °C (325.4 °F)	
Flash point:	76 °C (168.8 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	1.6 Vol %	
Upper:	8.7 Vol %	
Vapor pressure at 20 °C (68 °F):	0.87 hPa (0.7 mm Hg)	
Density at 20 °C (68 °F):	1.0153 g/cm <sup>3</sup> (8.47268 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water at 20 °C (68 °F):	9.8 g/l	

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Methacrylic Acid, Stabilized

		(Contd. of page 5)		
· Partition coefficient (n-octanol/water): Not determined.				
· Viscosity:				
Dynamic:	Not determined.			
Kinematic:	Not determined.			
• Other information	No further relevant information available.			

### **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- *Conditions to avoid* No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4h	11 mg/l (ATE)

#### · Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### **12 Ecological information**

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 7)

US

Printing date 06/14/2024

Reviewed on 06/14/2024

(Contd. of page 6)

#### · Additional ecological information:

Trade name: Methacrylic Acid, Stabilized

· General notes:

Water hazard class 1 (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

#### \*

Transport information	
UN-Number DOT, IMDG, IATA	UN2531
UN proper shipping name DOT IMDG, IATA	Methacrylic acid, stabilized METHACRYLIC ACID, STABILIZED
Transport hazard class(es)	
DOT	
Class Label	8 Corrosive substances 8
IMDG, IATA	
Class Label	8 Corrosive substances 8
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code)	Warning: Corrosive substances : 89
	(Contd. on page

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Methacrylic Acid, Stabilized

	(Contd. of page
· EMS Number:	F-A,S-B
· Segregation groups	(SGG1) Acids
· Stowage Category	C
· Stowage Code	SW1 Protected from sources of heat.
	SW2 Clear of living quarters.
· Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 1 L
~ ·	On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities ( $\widetilde{EQ}$ )	Code: E2
• • • • •	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2531 METHACRYLIC ACID, STABILIZED, 8, II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



• Signal word Danger • Hazard statements

## Combustible liquid.

(Contd. on page 9)

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: Methacrylic Acid, Stabilized

	-
(Contd. of page 8) Harmful if swallowed or if inhaled.	
Toxic in contact with skin.	
Causes severe skin burns and eye damage.	
May cause respiratory irritation.	
· Precautionary statements	
Keep away from flames and hot surfaces. – No smoking.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Take off immediately all contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
• Chemical sajely assessment. If Chemical sajely issessment has not been carried but.	

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

# · Contact:

Date of Preparation / Last Revision: · Date of preparation / last revision Revision 0.1, 06/14/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/14/2024 / 1.0 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA:** Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Oral 4: Acute toxicity - Category 4

(Contd. on page 10)

US

Printing date 06/14/2024

Reviewed on 06/14/2024

### Trade name: Methacrylic Acid, Stabilized

(Contd. of page 9)

Acute Toxicity - Dermal 3: Acute toxicity – Category 3 Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 • \* Data compared to the previous version altered.

JS –