Printing date 06/17/2024

Reviewed on 06/17/2024

DNS

1 Identification

- · Product identifier
- Trade name: Methylamine 40% w/w Solution
- · Article number: M5773
- 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
 Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 Hazard(s) identification

· Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS06 Skull and crossbones	
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
GHS07	
Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Specific Target Organ Toxicity - Single Expo	osure 3 H335 May cause respiratory irritation.
 Label elements GHS label elements The product is classified Hazard pictograms GHS02 GHS05 GHS06 GHS07 	l and labeled according to the Globally Harmonized System (GHS).
	(Contd. on page 2)



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Trade name: Methylamine 40% w/w Solution

$\begin{aligned} \text{Hazard-determining components of labeling:} \\ methylamine (mono-) \\ \text{Hazard statements} \\ \text{Highly flammable liquid and vapor.} \\ \text{Harmful of swallowed.} \\ \text{Toxic if inhaled.} \\ \text{Causes severe skin burns and eye damage.} \\ \text{May couse respiratory irritation.} \\ \hline \text{Precautionary statements} \\ \text{Keep away from heal/sparks/open flames/hot surfaces No smoking.} \\ \text{Ground/bond container and receiving equipment.} \\ \text{Use enly non-sparking tools.} \\ \text{Take precautionary measures against static discharge.} \\ Do not breathe dusts or mists. \\ \text{Use explosion-proof electrical/ventilating/lighting/equipment.} \\ \text{Use explosions ror in a well-ventilated area.} \\ Weap protective glows/protective clothing/eye protection/face protection. \\ Weas thoroughly after handling. \\ Do not eat, drink or smoke when using this product. \\ \text{Use enly ond-sors or in a well-ventilated area.} \\ Weap protective glows/protective clothing/eye protection/face protection. \\ If swallowed: Ruse mouth. Do NOT induce vomiting. \\ If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep coofrotable for breathing. \\ If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to d Continue rinsing. \\ Store in a well-ventilated place. Keep cool. \\ Store in a well-ventilated place. Keep cool. \\ Store in a well-ventilated place. Keep cool. \\ \\ Store in a well-ventilated place. Keep cool. \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Signal word Danger	(Contd. of page
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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 d Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing 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. Classification system: NFPA ratings (scale 0 - 4) Health = 3 Fire = 4 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = *3 Fire = 4 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
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Results of PBT and vPvB assessment PBT: Not applicable.		
PBT: Not applicable.		
	vPvB: Not applicable.	

(Contd. on page 3)

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Trade name: Methylamine 40% w/w Solution

(Contd. of page 2)

40.0%

60.0%

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 74-89-5 methylamine (mono-)

• Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

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.

- Remove breathing apparatus only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:

Supply fresh air or oxygen; call for doctor.

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*
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.*
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)

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 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. 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. 	(Contd. of page 3)
• Protective Action Criteria for Chemicals • PAC-1:	
CAS: 74-89-5 methylamine (mono-)	15 ppm
• PAC-2:	
CAS: 74-89-5 methylamine (mono-)	64 ppm
· PAC-3:	
CAS: 74-89-5 methylamine (mono-)	350 ppm

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 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: 74-89-5 methylamine (mono-)

PEL Long-term value: 12 mg/m³, 10 ppm

REL Long-term value: 12 mg/m³, 10 ppm

- TLV Short-term value: 15 ppm
 - Long-term value: 5 ppm

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

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Trade name: Methylamine 40% w/w Solution

(Contd. of page 4)

- · 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:



Protective gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

• Information on basic physical and • General Information	chemical properties	
· Appearance: Form:	Liquid	
Color:	Clear	
· Odor:	Unpleasant	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	-6 °C (21.2 °F)	
· Flash point:	-13 °C (8.6 °F)	

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Trade name: Methylamine 40% w/w Solution

	(Contd. of page)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	430 °C (806 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	5 Vol %
Upper:	20.7 Vol %
Vapor pressure at 20 °C (68 °F):	3,000 hPa (2.300 mm Hg)
Density at 20 °C (68 °F):	0.897 g/cm ³ (7.48547 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	60.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
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.

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· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Inhalative LC50/4h 11,250 mg/l

· Primary irritant effect:

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

 \cdot on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Harmful

Corrosive

Irritant

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)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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.
- Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

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Trade name: Methylamine 40% w/w Solution

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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.

UN-Number DOT, IMDG, IATA	UN1235
UN proper shipping name DOT IMDG, IATA	Methylamine, aqueous solution METHYLAMINE, AQUEOUS SOLUTION
Transport hazard class(es)	
DOT	
FLAMINERE LODO	
Class	3 Flammable liquids
Label IMDG, IATA	3
Class Label	3 Flammable liquids 3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code).	: 33 F-E,S-C
EMS Number: Segregation groups	F-E,S-C (SGG18) Alkalis
Stowage Category	E
Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG54 Stow "separated from" SGG11-mercury and mercury compounds
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

ACTIVE ACTIVE

Safety Data Sheet acc. to OSHA HCS

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Trade name: Methylamine 40% w/w Solution

	(Contd. of page
· Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
- IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 1235 METHYLAMINE, AQUEOUS SOLUTION, 3, II

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

Water methylamine (mono-)

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)

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Trade name: Methylamine 40% w/w Solution

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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:
- \cdot Date of preparation / last revision
- *Revision 0.1, 06/17/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN*

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Trade name: Methylamine 40% w/w Solution

	(Contd. of page 10)
06/17/2024 / 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	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
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 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Acute Toxicity - Inhalation 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.	
	US