Printing date 05/12/2023 Reviewed on 05/12/2023

### 1 Identification

· Product identifier

· Trade name: Amine GC Standard

· Article number: SO-587

· 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



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

Diethanolamine

· Hazard statements

Suspected of causing cancer.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 0Reactivity = 0

(Contd. on page 2)

(Contd. of page 1)

### Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

· HMIS-ratings (scale 0 - 4)

HEALTH 1 Health = 1FIRE 0 Fire = 0REACTIVITY 0 Reactivity = 0

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

### 3 Composition/information on ingredients

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

· Dangerous comp	oonents:	
CAS: 111-42-2	Diethanolamine	0.1%
v	ardous Ingredients	
CAS: 7732-18-5	Water	99.795%
CAS: 105-59-9	N-Methyldiethanolamine, 99%	0.1%
CAS: 108-95-2	Phenol	0.005%

### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult 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: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

(Contd. on page 3)

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

(Contd. of page 2)

#### · 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

	i criteria je: citeriteans	
· PAC-1:		
CAS: 111-42-2	Diethanolamine	3 mg/m <sup>3</sup>
CAS: 108-95-2	Phenol	15 ppm
· PAC-2:		
CAS: 111-42-2	Diethanolamine	28 mg/m³
CAS: 108-95-2	Phenol	23 ppm
· PAC-3:		
CAS: 111-42-2	Diethanolamine	130 mg/m³
CAS: 108-95-2	Phenol	200 ppm

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Open and handle receptacle with care.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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 t	that require	monitoring a	t the workplace:
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#### CAS: 111-42-2 Diethanolamine

REL Long-term value: 15 mg/m³, 3 ppm

TLV Long-term value: 1\* mg/m<sup>3</sup>

Skin; \*inhalable fraction and vapor, A3

- · 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.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Breathing equipment: Not required.

(Contd. on page 4)

(Contd. of page 3)

# Safety Data Sheet acc. to OSHA HCS

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

#### · Protection of hands:



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: Goggles recommended during refilling.
- · Body protection: Protective work clothing

Physical and chemical proper	
Information on basic physical and o	chemical properties
General Information	
Appearance:	7
Form:	Liquid
Color:	Clear
Odor:	Organic National Action 1
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	1.00033 g/cm³ (8.34775 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

(Contd. on page 5)

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

		(Contd. of page
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octano	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.1 %	
Water:	99.8 %	
VOC content:	0.11 %	
	1.1 g/l / 0.01 lb/gal	
Solids content:	0.2 %	
· 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:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
CAS: 111-42-2 Diethanolamine	2 <i>B</i>
CAS: 108-95-2 Phenol	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

05

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

(Contd. of page 5)

### 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: Not hazardous for water.
- · 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.

UN-Number DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA Class	Not regulated	
Packing group DOT, IMDG, IATA	Not regulated	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not regulated	

### 15 Regulatory information

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

(Contd. on page 7)

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

Sara	(Contd. of pag
Section 355 (extremely hazardous substances):	
CAS: 108-95-2   Phenol	
Section 313 (Specific toxic chemical listings):	
CAS: 111-42-2 Diethanolamine	
CAS: 108-95-2 Phenol	
TSCA (Toxic Substances Control Act):	
Water	ACTIV
N-Methyldiethanolamine, 99%	ACTIV
Diethanolamine	ACTIV
Phenol	ACTIV
Hazardous Air Pollutants	
CAS: 111-42-2 Diethanolamine	
CAS: 108-95-2 Phenol	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 111-42-2 Diethanolamine	
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)	
CAS: 108-95-2   Phenol	D
TLV (Threshold Limit Value)	
CAS: 111-42-2 Diethanolamine	F
CAS: 108-95-2 Phenol	
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).
- · Hazard pictograms



GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

Die than olamine

· Hazard statements

Suspected of causing cancer.

(Contd. on page 8)

Printing date 05/12/2023 Reviewed on 05/12/2023

Trade name: Amine GC Standard

(Contd. of page 7)

#### · Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

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.

### 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

Revision 1.0 05/12/2023, reviewed SDS for accuracy. STN

Revision 1.0 01-10-2022, removed fluoride and sulfate from ingredients. STN 05/12/2023

#### · 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)

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

Carcinogenicity 2: Carcinogenicity – Category 2

\* Data compared to the previous version altered.

US