

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

1 Identification

- **Product identifier**
- **Trade name:** ATCC Medium :
Solution 1
- **Article number:** ND368
- **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 sherman@aquasolutions.org
- **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666



2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Not Applicable
- **Hazard pictograms** Not Applicable
- **Signal word** Not Applicable
- **Hazard statements** Not Applicable
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **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 components:** Not Applicable

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

**Trade name: ATCC Medium :
Solution 1**

(Contd. of page 1)

· Table of Nonhazardous Ingredients

CAS: 7783-20-2	Ammonium Sulfate	0.412%
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	0.0782%
CAS: 7778-77-0	Potassium Phosphate Monobasic	0.0516%
CAS: 7782-63-0	Ferrous Sulfate Heptahydrate	0.0349%
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	0.0225%
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	0.0167%
CAS: 10035-04-8	Calcium Chloride Dihydrate	0.0033%
CAS: 7732-18-5	Water	99.381%

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **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:** 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).
- **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:

CAS: 7783-20-2	Ammonium Sulfate	13 mg/m ³
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	30 mg/m ³
CAS: 7778-77-0	Potassium Phosphate Monobasic	9.6 mg/m ³

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

Trade name: ATCC Medium :
Solution 1

(Contd. of page 2)

CAS: 7782-63-0	Ferrous Sulfate Heptahydrate	15 mg/m ³
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	33 mg/m ³
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	12 mg/m ³
CAS: 10035-04-8	Calcium Chloride Dihydrate	16 mg/m ³

· PAC-2:

CAS: 7783-20-2	Ammonium Sulfate	140 mg/m ³
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	330 mg/m ³
CAS: 7778-77-0	Potassium Phosphate Monobasic	110 mg/m ³
CAS: 7782-63-0	Ferrous Sulfate Heptahydrate	170 mg/m ³
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	370 mg/m ³
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	32 mg/m ³
CAS: 10035-04-8	Calcium Chloride Dihydrate	170 mg/m ³

· PAC-3:

CAS: 7783-20-2	Ammonium Sulfate	840 mg/m ³
CAS: 6381-92-6	Ethylenedinitrilotetraacetic acid, disodium salt	2,000 mg/m ³
CAS: 7778-77-0	Potassium Phosphate Monobasic	630 mg/m ³
CAS: 7782-63-0	Ferrous Sulfate Heptahydrate	990 mg/m ³
CAS: 10034-99-8	Magnesium Sulfate Heptahydrate	2,300 mg/m ³
CAS: 7758-99-8	Cupric Sulfate Pentahydrate	190 mg/m ³
CAS: 10035-04-8	Calcium Chloride Dihydrate	1,100 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **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:** None.
- **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 item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

Trade name: ATCC Medium :
Solution 1

(Contd. of page 3)

- **Breathing equipment:** Not required.
- **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

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	101 °C (213.8 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.
- **Vapor pressure:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**

Water:	Not miscible or difficult to mix.
---------------	-----------------------------------

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

Trade name: ATCC Medium :
Solution 1

(Contd. of page 4)

- | | |
|---|--|
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Water: | 99.4 % |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gl |
| · 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.

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 is not subject to classification according to internally approved calculation methods for preparations.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **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.

US

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

Trade name: ATCC Medium :
Solution 1

(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:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, ADN, IMDG, IATA	Not regulated
· UN proper shipping name	
· DOT, ADN, IATA	Not regulated
· IMDG	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 II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Not regulated

US

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

**Trade name: ATCC Medium :
Solution 1**

(Contd. of page 6)

15 Regulatory information

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *Sara*

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 7783-20-2 Ammonium Sulfate

CAS: 7758-99-8 Cupric Sulfate Pentahydrate

· **TSCA (Toxic Substances Control Act):**

Ammonium Sulfate

Potassium Phosphate Monobasic

Water

· **TSCA new (21st Century Act) (Substances not listed)**

CAS: 6381-92-6 Ethylenedinitrilotetraacetic acid, disodium salt

· **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 established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **GHS label elements** Not Applicable

· **Hazard pictograms** Not Applicable

· **Signal word** Not Applicable

· **Hazard statements** Not Applicable

· **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:**

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/13/2017

Reviewed on 12/13/2017

Trade name: ATCC Medium :
Solution 1

(Contd. of page 7)

· **Date of preparation / last revision**

12-13-2017: review SDS for accuracy. STN

Creation date for SDS 08-19-2014. STN

12/13/2017 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

US