Printing date 06/14/2024

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Reviewed on 06/14/2024

Identification	
Product identifier	
Trade name: <u>Ammonium Molybdate</u> <u>Reagent 1</u>	
Article number: M-006	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS08 Health hazard	
Carcinogenicity 1A	H350 May cause cancer.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
GHS07	
Specific Target Organ Toxicity - Single Exposure	3 H335 May cause respiratory irritation.
Label elements GHS label elements The product is classified and Hazard pictograms	labeled according to the Globally Harmonized System (GHS).
GHS05 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling:	
Sulfuric Acid 96 - 98% Ammonium Molybdate Tetrahydrate ACS Grade	
	(Contd. on page

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	(Contd. of page 1)
	· Hazard statements
	Causes severe skin burns and eye damage.
	May cause cancer.
	May cause respiratory irritation.
	· Precautionary statements
	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Do not breathe dusts or mists.
	Wash thoroughly after handling.
	Use only outdoors or in a well-ventilated area.
	Wear protective gloves/protective clothing/eye protection/face protection.
	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.
	IF exposed or concerned: Get medical advice/attention.
	Specific treatment (see on this label).
	Wash contaminated clothing before reuse.
	Store in a well-ventilated place. Keep container tightly closed.
	Store locked up.
	Dispose of contents/container in accordance with local/regional/national/international regulations.
	· Additional information:
	2 % of the mixture consists of component(s) of unknown toxicity.
	· Classification system:
	· NFPA ratings (scale 0 - 4)
	A Turngs (scale 0 - 4)
	Health = 3
	Fire = 0
	3 0 Reactivity = 0
	· HMIS-ratings (scale 0 - 4)
	HEALTH 3 Health -3
	FIRE O Fire = 0
	REACTIVITY 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.
ſ	· Dangerous components:

CAS: 7664-93-9 Sulfuric Acid 96 - 98% 41	1.21%
CAS: 12054-85-2 Ammonium Molybdate Tetrahydrate ACS Grade 2	2.0%
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56.791%

· 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.
- After inhalation: 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: 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: Use fire fighting measures that suit the environment.
- · 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 precauti	ons, protective equipment and emergency procedures	
Mount respiratory	protective device.	
Wear protective ed	uipment. Keep unprotected persons away.	
· Environmental pr	ecautions:	
Dilute with plenty	of water.	
Do not allow to en	ter sewers/ surface or ground water.	
· Methods and mate	erial for containment and cleaning up:	
Absorb with liquia	-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing a	gent.	
	ited material as waste according to section 13.	
Ensure adequate v	entilation.	
· Reference to other	r sections	
See Section 7 for i	nformation on safe handling.	
See Section 8 for i	nformation on personal protection equipment.	
See Section 13 for	disposal information.	
· Protective Action	Criteria for Chemicals	
· PAC-1:		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$0.20 \ mg/m^3$
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	$2.8 mg/m^{3}$
· PAC-2:		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$8.7 mg/m^3$
		(Contd. on page 4)
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Trade name: Ammonium Molybdate Reagent 1

CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	(Contd. of page 3) 30 mg/m ³
· PAC-3:		
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 mg/m ³
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	180 mg/m ³

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 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 that require monitoring at the workplace:		
CAS: 7664-93-9 Sulfuric Acid 96 - 98%		
PEL	Long-term value: 1 mg/m ³	
REL	Long-term value: 1 mg/m ³	
TLV	Long-term value: 0.2* mg/m ³	
	*as thoracic fraction, A2	
CAS: 12054-85-2 Ammonium Molybdate Tetrahydrate ACS Grade		
ACGIH	Short-term value: 0.5 mg/m ³	
	Long-term value: 5.0 mg/m ³	
NIOSH	Short-term value: 1000 mg/m ³	
OSHA-FINAL PEL'S	Short-term value: 5 mg/m ³	
	Long-term value: 5 mg/m ³	
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.

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- 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:	7 · · · 7	
Form: Color:	Liquid Clear	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	<2	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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.	

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	(Contd. of p	age
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.25019 g/cm ³ (10.43284 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:	56.8 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	2.0 %	
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: 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: Corrosive

Irritant

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

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· NTP (National Toxicology Program)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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, IMDG, IATA	UN3264
UN proper shipping name	
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric Acid)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfur
	Acid)

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	(Contd. of page
Transport hazard class(es)	
DOT	
corrosive	
V	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
the state of the s	
V	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	: 80
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
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 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S
	(SULFURIC ACID), 8, II

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15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

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Section 313 (Specific toxic chemical listings):	(Contd. of page
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Sulfuric Acid 96 - 98%	ACTIVI
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.	
None of the ingreatents is listed.	
Chemicals known to cause developmental toxicity:	

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· 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*



· Signal word Danger

Hazard-determining components of labeling: Sulfuric Acid 96 - 98%
Ammonium Molybdate Tetrahydrate ACS Grade
Hazard statements
Causes severe skin burns and eye damage.
May cause cancer.
May cause respiratory irritation.
Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

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Trade name: Ammonium Molybdate Reagent 1

	(Contd. of page 9
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with w	ater/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	s, if present and easy to do
Continue rinsing.	
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international	ıl regulations.
· National regulations:	
Additional classification according to Decree on Hazardous Materials:	
Carcinogenic hazardous material group III (dangerous).	
Information about limitation of use:	
Workers are not allowed to be exposed to the hazardous carcinogenic materials co	ntained in this preparation
Exceptions can be made by the authorities in certain cases.	manica in inis preparation
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
Chemical sajety assessment. If Chemical Sajety Itssessment has not been carried out.	
Other information	
	stitute a guarantee for an
This information is based on our present knowledge. However, this shall not con specific product features and shall not establish a legally valid contractual relationships	
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