Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 11, 2018

Revision: October 11, 2018

· Product iden	tifier
· Trade name: A	mmonium Oxalate, Monohydrate
· Product code:	AM6050
• CAS Number:	
6009-70-7	
	d use and restriction on use
	d use: Laboratory chemicals n use: No relevant information available.
	e supplier of the Safety Data Sheet
 Manufacturer/S AquaPhoenix S 	
860 Gitts Run F	
Hanover, PA 17	
Phone: (717)63	
Toll-Free: (866) info@aquaphoe	
ChemTel Inc.	ephone number:
	(North America)
	85 (International)
	entification
· Classification	n of the substance or mixture
• Classification Acute Tox. 4 H	n of the substance or mixture 302 Harmful if swallowed.
• Classification Acute Tox. 4 H Acute Tox. 4 H	n of the substance or mixture 1302 Harmful if swallowed. 1312 Harmful in contact with skin.
• Classification Acute Tox. 4 H Acute Tox. 4 H Eye Irrit. 2A H	n of the substance or mixture 302 Harmful if swallowed. 312 Harmful in contact with skin. 319 Causes serious eye irritation.
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P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Substances

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· CAS No. Description

6009-70-7 ethanedioic acid, diammonium salt, monohydrate

4 First-aid measures

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· Description of first aid measures
· General information: Immediately remove any clothing soiled by the product.
 After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact:
Brush off loose particles from skin.
Immediately rinse with water.
If skin irritation is experienced, consult a doctor.
· After eye contact:
Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
 Most important symptoms and effects, both acute and delayed:
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
· Danger:
Harmful if swallowed or in contact with skin.
Causes serious eye irritation.
 Indication of any immediate medical attention and special treatment needed:
Medical supervision for at least 48 hours.
If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No relevant information available.

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• Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters
 Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Methods and material for containment and cleaning up Pick up mechanically.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Dispose of the collected material according to regulations.

· 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.

7 Handling and storage

· Handling

- · Precautions for safe handling:
- Prevent formation of aerosols.
- Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Store in a cool location.
- Information about storage in one common storage facility: Store away from foodstuffs.
 Do not store together with avidizing and asidia metaziale

Do not store together with oxidizing and acidic materials.

- Further information about storage conditions: Keep containers tightly sealed.
- Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

(Cont'd. on page 4)

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Printing date: October 11, 2018 Revision: October 11, 2018 Trade name: Ammonium Oxalate, Monohydrate (Cont'd. of page 3) · 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. · Exposure controls · General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. · Engineering controls: Provide adequate ventilation. · Breathing equipment: Not required under normal conditions of use. For large spills, respiratory protection may be advisable. · Protection of hands: Protective gloves · Material of gloves Nitrile rubber, NBR Butyl rubber, BR Natural rubber, NR Neoprene gloves Sensibilization by the components in the glove materials is possible. · 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: Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. Body protection: Protective work clothing · Limitation and supervision of exposure into the environment No special requirements. · Risk management measures No special requirements. 9 Physical and chemical properties

Appearance:		
Form:	Crystalline powder	
Color:	White	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	

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		(Cont'd. of page
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Product is not flammable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids and oxidizing agents.
- · Conditions to avoid Excessive heat.
- **Incompatible materials** Strong acids Oxidizers
- Hazardous decomposition products Under fire conditions only: Ammonia Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide

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Trade name: Ammonium Oxalate, Monohydrate

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Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 [1.100 mg/kg Primary irritant effect: On the skin: Based on available data, the classification criteria are not met. On the eye: Causes eye irritation. Sensitization: Based on available data, the classification criteria are not met. 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. Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): Causes serious eye irritation. Harmful is swallowed. Repeated dose toxicity: No relevant information available. Germ cell mutagenicity: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Ba	1 Toxi	cological information
Acute toxicity: LD/LCS0 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LDS0 ILD50 375-475 mg/kg Dermal LD50 ILD50 1,100 mg/kg Primary irritant effect: On the skin: Based on available data, the classification criteria are not met. On the eye: Causes eye irritation. Sensitization: Based on available data, the classification criteria are not met. IARC (International Agency for Research on Cancer): Substance is not listed. NTP (National Toxicology Program): Substance is not listed. Substance is not listed. Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): Causes serious eye irritation. Harmful if swallowed. Repeated dose toxicity: No relevant information available. Rem cell mutagenicity: Based on available data, the classification criteria are not met. StoTo-repeated exposure: Based on available data, the classification criteria are not met. StoTo-repeated exposure: Based on available data, the classification criteria are not met. StoTo-repeated exposure: Based on available data, the classification criteria are not met.		•
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General notes:	· Addit	tional ecological information
	· Gene	ral notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage (Cont'd. on page 7)

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: October 11, 2018

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Trade name: Ammonium Oxalate, Monohydrate

(Cont'd. of page 6)

system. • Results of PBT and vPvB assessment

• **PBT:** Not applicable.

- · **vPvB:** Not applicable.
- · Other adverse effects No 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. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not regulated.
 · UN proper shipping name · DOT, ADR, IMDG, IATA 	Not regulated.
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA · Class	Not regulated.
 Packing group DOT, ADR, IMDG, IATA 	Not regulated.
· Environmental hazards	Not applicable.
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	k II of Not applicable.

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

· Section 302 (extremely hazardous substances):

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Substance is not listed.

Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act)

Substance is listed.

Proposition 65 (California)

Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

Substance is not listed.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· Canadian Domestic Substances List (DSL) (Substances not listed.):

All ingredients listed on DSL or NDSL.

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.

· Abbreviations and acronyms:

ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 (Cont'd. on page 9)

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(Cont'd. of page 8) Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com