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1 Id	entif	ficat	ion
	-		

- · Product identifier
- Trade name: <u>Copper and Iron Std.</u> <u>1.0 ppm w/w in Acetonitrile</u>
- · Article number: M-603
- 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



Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Acute Toxicity - Oral 4	H302 Harmful if swallowed.
Acute Toxicity - Dermal 4	H312 Harmful in contact with skin.
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Eye Irritation 2A	H319 Causes serious eye irritation.

· Label elements

• *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:* Acetonitrile, Reagent ACS Grade

· Hazard statements

Highly flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye irritation.

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Trade name: Copper and Iron Std. 1.0 ppm w/w in Acetonitrile

(Contd. of page 1) · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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. Specific treatment (see on this label). Rinse mouth. Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 4Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2FIRE 4 Fire = 4**REACTIVITY** O 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	onents:	
CAS: 75-05-8 Ac	etonitrile, Reagent ACS Grade	99.8%
• Table of Nonhaze	rdous Ingredients	
CAS: 7732-18-5	Water	0.189%
CAS: 7697-37-2	Nitric Acid	0.011%
	-	(Contd. on page 3)

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Trade name: Copper and Iron Std.

1.0 ppm w/w in Acetonitrile

	(Co	ntd. of page 2)
CAS: 19004-19-4	Cupric Nitrate Hydrate	0.0004%
CAS: 7439-89-6	Iron Metal	0.0001%

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.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: 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 No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

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

· Protective Action Criteria for Chemicals

• PAC-1:

CAS: 75-05-8 Acetonitrile, Reagent ACS Grade

13 ppm

(Contd. on page 4)

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Trade name: Copper and Iron Std.

1.0 ppm w/w in Acetonitrile

		(Contd. of page 3)
CAS: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 19004-19-4	Cupric Nitrate Hydrate	42 mg/m ³
CAS: 7439-89-6	Iron Metal	3.2 mg/m ³
· PAC-2:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	50 ppm
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 19004-19-4	Cupric Nitrate Hydrate	150 mg/m ³
CAS: 7439-89-6	Iron Metal	35 mg/m ³
· PAC-3:		
CAS: 75-05-8	Acetonitrile, Reagent ACS Grade	150 ppm
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 19004-19-4	Cupric Nitrate Hydrate	240 mg/m ³
CAS: 7439-89-6	Iron Metal	150 mg/m ³

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 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: 75-05-8 Acetonitrile, Reagent ACS Grade

- PEL Long-term value: 70 mg/m³, 40 ppm
- REL Long-term value: 34 mg/m³, 20 ppm
- TLV Long-term value: 20 ppm
 - Skin, A4

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

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Trade name: Copper and Iron Std.

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(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. 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:

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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 \cdot *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:	T I • I	
Form:	Fluid	
Color:	Colorless	
· Odor:	Aromatic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	36 °C (96.8 °F)	
· Flash point:	5 °C (41 °F)	

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Trade name:	Copper and Iron Std.
	1.0 ppm w/w in Acetonitrile

	(Contd. of page 5
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	525 °C (977 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	4.4 Vol % 16 Vol %
· Vapor pressure at 20 °C (68 °F): · Vapor pressure at 50 °C (122 °F):	97 hPa (72.8 mm Hg) 330 hPa (247.5 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	0.78269 g/cm ³ (6.53155 lbs/gal) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	0.39 mPas Not determined.
· Solvent content: Water: VOC content:	0.2 % 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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Trade name: Copper and Iron Std.

1.0 ppm w/w in Acetonitrile

(Contd. of page 6)

Information on toxicological effects Acute toxicity: ID/LC50 values that <i>u</i> = relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 501 mg/kg Dermal LD50 1.102 mg/kg Inhalative LC50/4h 11 mg/L Primary irritant effect: on the skin: No irritant effect. on the skin: No irritant effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparation Harmful Irritant 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. Toxicity	 Acute toxicity LD/LC50 val ATE (Acute 2) Oral Li Dermal Li Inhalative Lo Primary irrit. on the skin: 1 	y: lues that are relevant for classification: Toxicity Estimate) D50 501 mg/kg D50 1,102 mg/kg C50/4h 11 mg/l fant effect: No irritant effect. rritating effect. : No sensitizing effects known. pxicological information:
LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 501 mg/kg Dermal LD50 1,102 mg/kg Inhalative LC50/4h 11 mg/l Primary irritant effect: on the skin: No irritant effect. on the skin: No irritant effect. Sensitization: No sensiticing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparation Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients is listed. VTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Ecological information	· LD/LC50 val ATE (Acute 2 Oral Li Dermal Li Inhalative Li • Primary irrit. • on the skin: 1 • on the eye: 1 • on the eye: 1	Interst that are relevant for classification: Toxicity Estimate) D50 501 mg/kg D50 1,102 mg/kg C50/4h 11 mg/l Cant effect: No irritant effect. rritating effect. : No sensitizing effects known. pxicological information:
ATE (Acute Toxicity Estimate) Oral LD50 501 mg/kg Dermal LD50 1,102 mg/kg Inhalative LC50/4h 11 mg/l Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparation Harmful Irritant 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. None of the ingredients is listed. Ecological information) None of the ingredients is listed. Ecological information)	ATE (Acute 2)OralLiDermalLiInhalativeLo• Primary irrita• on the skin:• on the eye:	Toxicity Estimate) D50 501 mg/kg D50 1,102 mg/kg C50/4h 11 mg/l tant effect: No irritant effect. rritating effect. : No sensitizing effects known. pxicological information:
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Inhalative LC50/4h 11 mg/l Primary irritant effect: on the skin: No irritant effect. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparation Harmful Irritant 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. Image:	Inhalative Lo • Primary irrita • on the skin: I • on the eye: In	C50/4h 11 mg/l cant effect: No irritant effect. rritating effect. : No sensitizing effects known. pxicological information:
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None of the ingredients is listed. Ecological information	None of the in	ngredients is listed.
Ecological information	· OSHA-Ca (O	Occupational Safety & Health Administration)
	None of the in	ngredients is listed.
Toxicity	Ecological	<i>information</i>
	Tariaity	
Aquatic toxicity: No further relevant information available.		city: No further relevant information available
Persistence and degradability No further relevant information available.		
Behavior in environmental systems:		
Bioaccumulative potential No further relevant information available.	· Bioaccumula	ative potential 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.

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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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	UN1993
· UN proper shipping name · DOT · IMDG, IATA	Flammable liquids, n.o.s. (acetonitrile) FLAMMABLE LIQUID, N.O.S. (acetonitrile)
• Transport hazard class(es)	
·DOT	
RAMMARE LOOD	
· Class · Label	3 Flammable liquids 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) • EMS Number:	: 55 F-E,S-D
Stowage Category	B
• 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: 5 L On cargo aircraft only: 60 L

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Trade name: Copper and Iron Std. 1.0 ppm w/w in Acetonitrile

	(Contd. of page 8)
· IMDG · Limited quantities (LQ)	51.
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), 3, II

15 Regulatory information

Section 355 (extremely hazardous substances):	
CAS: 7697-37-2 Nitric Acid	
Section 313 (Specific toxic chemical listings):	
CAS: 75-05-8 Acetonitrile, Reagent ACS Grade	
CAS: 7697-37-2 Nitric Acid	
TSCA (Toxic Substances Control Act):	
Acetonitrile, Reagent ACS Grade	ACTIVI
Water	ACTIV
Nitric Acid	ACTIVI
Iron Metal	ACTIVI
Hazardous Air Pollutants	
CAS: 75-05-8 Acetonitrile, Reagent ACS Grade	
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:	
• Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.	
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. 	
None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Carcinogenic categories	
None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Carcinogenic categories	CBD, 1
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: 75-05-8 Acetonitrile, Reagent ACS Grade	CBD, 1
None of the ingredients is listed. • Chemicals known to cause developmental toxicity: None of the ingredients is listed. • Carcinogenic categories • EPA (Environmental Protection Agency)	CBD, 1

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Trade name: Copper and Iron Std. 1.0 ppm w/w in Acetonitrile



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:
- Date of preparation / last revision Revision 1.2 07/25/2024: Reviewed SDS for accuracy. MH/STN 07/25/2024 / 1.0
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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	(Contd. of page 10)
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	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
\cdot * Data compared to the previous version altered.	
- ···· · ···· ··· ··· ··· ··· ··· ··· ·	US