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

Printing date: September 25, 2018

Revision: September 25, 2018

Product ider	ntifier
Trade name: Product code	CFA Reagent 2 : CT9002
Recommende	d use and restriction on use d use: Laboratory chemicals on use: No relevant information available.
Details of the Manufacturer AquaPhoenix S 860 Gitts Run Hanover, PA 1 Phone: (717)6 Toll-Free: (866 info@aquapho	Scientific, Inc. Road 7331 32-1291)632-1291
ChemTel Inc. (800)255-3924	lephone number: (North America) 585 (International)
Hazard(s) id	dentification
	dentification n of the substance or mixture
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Classificatio Eye Irrit. 2A H Label element GHS label ele The product is Hazard pictog GHS07 Signal word: V Hazard staten H319 Causes Precautionary P264 P280	n of the substance or mixture 319 Causes serious eye irritation. nts ments classified and labeled according to the Globally Harmonized System (GHS). rams: Warning nents: serious eye irritation. statements: Wash thoroughly after handling. Wear eye protection / face protection.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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· Compone	· Components:				
7732-18-5	Water	75%			
77-92-9	Citric acid	(1) Eye Irrit. 2A, H319 25%			
	information	· · · · · · · · · · · · · · · · · · ·			

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] 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:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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:
- Causes serious eye irritation.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Acidosis

· Danger: No relevant information available.

- · 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.
- 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

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Personal precautions, protective equipment and emergency procedures

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

• Environmental precautions

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

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

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Information about protection against explosions and fires:

Keep respiratory protective device available.

Keep ignition sources away - Do not smoke.

• Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

· Information about storage in one common storage facility: Store away from foodstuffs.

• Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

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.

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

• Engineering controls: Provide adequate ventilation.

- · Breathing equipment: Use suitable respiratory protective device when aerosol or mist is formed.
- · Protection of hands:

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Protective gloves

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.

Nitrile or neoprene gloves are recommended.

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

· 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 relevant information available.

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· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	1.14 g/cm³ (9.51 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/wa	iter): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
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.

· Conditions to avoid Store away from oxidizing agents.

· Incompatible materials Oxidizers, strong bases, strong acids

[•] Hazardous decomposition products

Carbon monoxide and carbon dioxide

Corrosive gases/vapors

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

· On the skin: Based on available data, the classification criteria are not met.

· On the eye: Irritating effect.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

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· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes.

· Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

• STOT-single exposure: Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

• Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

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 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.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

[·] UN-Number

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· DOT, ADR, 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 	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):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

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· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

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

All ingredients are listed.

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 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 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

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