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

Revision: February 14, 2020

1 Identification	
· Product identifier	
 Trade name: <u>Aceto-Orecein2 Aqueous</u> Product code: AC3000SS 	
 Recommended use and restriction on Recommended use: Laboratory chemic Restrictions on use: No relevant inform 	als
 Details of the supplier of the Safet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 	y Data Sheet
• Emergency telephone number: ChemTel Inc. (800)255-3924 (North America)	
+1 (813)248-0585 (International)	
2 Hazard(s) identification	
	mixture
2 Hazard(s) identification Classification of the substance or Met. Corr.1 H290 May be corrosive to	metals.
2 Hazard(s) identification Classification of the substance or Met. Corr.1 H290 May be corrosive to Skin Corr. 1B H314 Causes severe skir	metals. burns and eye damage.
2 Hazard(s) identification Classification of the substance or Met. Corr.1 H290 May be corrosive to Skin Corr. 1B H314 Causes severe skir Eye Dam. 1 H318 Causes serious eye Label elements GHS label elements	metals. burns and eye damage.
2 Hazard(s) identification Classification of the substance or Met. Corr.1 H290 May be corrosive to Skin Corr. 1B H314 Causes severe skin Eye Dam. 1 H318 Causes serious eye Label elements GHS label elements The product is classified and labeled acc	metals. burns and eye damage. damage.
2 Hazard(s) identification Classification of the substance or Met. Corr.1 H290 May be corrosive to Skin Corr. 1B H314 Causes severe skir Eye Dam. 1 H318 Causes serious eye Label elements GHS label elements The product is classified and labeled acc Hazard pictograms:	metals. burns and eye damage. damage. ording to the Globally Harmonized System (GHS). damage. ontainer. apors/spray.

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Trade name: Aceto-Orecein2 Aqueous

P280	(Cont'd. of page 1) Wear protective gloves/protective clothing/eye protection/face protection.
	If swallowed: Rinse mouth. Do NOT induce vomiting.
	0
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
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: Mixtures

· Components:

Componer	115.	
		30-40%
	Flam. Liq. 3, H226 Met. Corr.1, H290; Skin Corr. 1A, H314	
	♦ Met. Corr.1, H290; Skin Corr. 1A, H314	
1400-62-0	Orcein	1-3%
	Acute Tox. 4, H302	
7732-18-5	Water	60-70%
Additional	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. Provide oxygen treatment if affected person has difficulty breathing. If experiencing respiratory symptoms: Call a poison center/doctor. After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. Seek immediate help for blistering or open wounds. After eye contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor.

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Rinse out mouth and then drink plenty of water.	(00
Do not induce vomiting; immediately call for medical help.	
Most important symptoms and effects, both acute and delayed:	
Strong caustic effect on skin and mucous membranes.	
Danger of severe eye injury.	
Gastric or intestinal disorders when ingested.	
Nausea in case of ingestion.	
Coughing	
Acidosis	
Dizziness	
Danger:	
Danger of gastric perforation.	
Causes serious eye damage.	
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.	

[•] Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: None.

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.

Keep away from ignition sources.

Protect from heat.

• Environmental precautions Do not allow to enter sewers/ surface or ground water.

[•] Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

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

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Prevent form Avoid splash Use only in v	s for safe handling: nation of aerosols. nes or spray in enclosed areas. well ventilated areas. I about protection against explosions and fires: No special measures	(Cont'd. of page 3 required.
 Requirement Unsuitable m Unsuitable m Information Store away f Store away f Do not store Store away f Further info Keep containt Store in cool 	s for safe storage, including any incompatibilities ints to be met by storerooms and receptacles: material for receptacle: aluminium. material for receptacle: steel. about storage in one common storage facility: from foodstuffs. from oxidizing agents. e together with alkalis (caustic solutions). from metals. ormation about storage conditions: ners tightly sealed. I, dry conditions in well sealed receptacles. nd use(s) No relevant information available.	
8 Exposure	e controls/personal protection	
The following	arameters ts with limit values that require monitoring at the workplace: ng constituent is the only constituent of the product which has a ed exposure limit.	PEL, TLV or othe
64-19-7 Ace	etic acid	
PEL (USA) REL (USA)	Long-term value: 25 mg/m³, 10 ppm Short-term value: 37 mg/m³, 15 ppm	

REL (USA)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
TLV (USA)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm
EV (Canada)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
LMPE (Mexico)	Short-term value: 15 ppm Long-term value: 10 ppm

[·] 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.

Avoid contact with the eyes and skin.

• Engineering controls: Provide adequate ventilation.

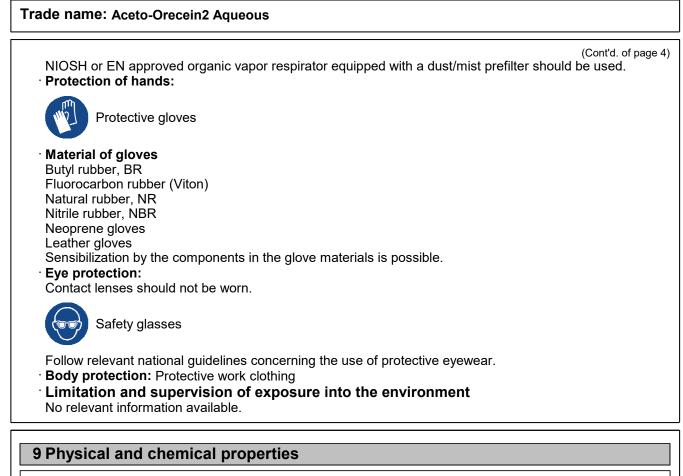
• Breathing equipment:

Not required under normal conditions of use.

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Appearance:	
Form:	Liquid
Color:	Red
Odor:	Acidic
Odor threshold:	Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
Flash point:	Product not expected to support sustained combustion.
	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air
	vapor mixtures are possible.
Explosion limits	
Lower:	Not determined.

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		(Cont'd. of pag
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.02-1.04 g/cm³ (8.51-8.68 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/wat	er): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

10 Stability and reactivity

• **Reactivity:** Toxic fumes may be released if heated above the decomposition point.

- · 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

Reacts with alkali (lyes).

Corrosive action on metals.

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

Excessive heat.

[·] Incompatible materials

Metals.

Alkalis.

Strong acids

Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

11 Toxicological information

[·] Information on toxicological effects

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

· LD/LC50 values that are relevant for classification:

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ATE (Acute Toxicity Estimate) Crail [LD50] >50000 mg/kg (rat) 64-19-7 Acetic acid Grail [LD50] 3310 mg/kg (rat) 64-19-7 Acetic acid Grail [LD50] 3310 mg/kg (rat) 1400-62-0 Orcein Grail [LD50] 1000-1300 mg/kg (rat) (Quantitative Structure-Activity Relationship) Primary irritant effect: Oral ILD50] 1000-1300 mg/kg (rat) (Quantitative Structure-Activity Relationship) Primary irritant effect: On the skin: Strong caustic effect on skin and mucous membranes. On the eye: Strong caustic effect on skin and mucous membranes. On the eye: Strong caustic effect on skin and mucous membranes. Non the eye: Strong caustic effect on skin and mucous membranes. Non the eye: Strong caustic effect on skin and mucous membranes. None of the ingredients are listed. None of the ingredients are listed. None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Skin contact. Scatte effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage Repeated dose toxicity: No relevant information available. Germ cell mutagenicity: Based on available data, the classification criteria are not met. STOT repeated exp	ATE	
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 Bioaccumulative potential: No relevant information available. Mobility in soil: No relevant information available. 		
• Mobility in soil: No relevant information available.		
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		aral notes:

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.

• Other adverse effects No relevant information available.

(Cont'd. on page 8)

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

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Trade name: Aceto-Orecein2 Aqueous

(Cont'd. of page 7)

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. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

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

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	UN2790	
UN proper shipping name		
DOT	Acetic acid solution	
ADR/RID/ADN, IMDG, IATA	ACETIC ACID SOLUTION	
Transport hazard class(es)		
DOT		
CORROSUC ?		
Class	8	
Label	8	
ADR/RID/ADN		
Class	8 (C3)	
Label	8	
IMDG, IATA		
Class	8	
Label	8	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	11	
Environmental hazards	Not applicable.	

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

ide name: Aceto-Orecein2 Aqueous	
	(Cont'd. of pa
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
EMS Number: Segregation groups	F-A,S-B Acids
Transport in bulk according to Annex II o	
MARPOL73/78 and the IBC Code	Not applicable.
Regulatory information	
mixture United States (USA) SARA	ations/legislation specific for the substance
Section 302 (extremely hazardous substance	s):
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 or exempt.	
Proposition 65 (California)	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause developmental to	xicity for females:
None of the ingredients are listed.	
Chemicals known to cause developmental to	xicity for males:
None of the ingredients are listed.	
· Chemicals known to cause developmental to	xicity:
None of the ingredients are listed.	
EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
IARC (International Agency for Research on C	Cancer):
None of the ingredients are listed.	
None of the ingredients are listed. Canadian Domestic Substances List (DSL):	

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:

(Cont'd. on page 10)

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

Revision: February 14, 2020

Trade name: Aceto-Orecein2 Aqueous

(Cont'd. of page 9) 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 OSHA: Occupational Safety & Health Administration Flam. Liq. 3: Flammable liquids – Category 3 Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 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 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com