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

Revision: May 22, 2020

1 Identification • Product identifier	
<ul> <li>Trade name: <u>ORP Standard 600 mV +/-5% @ 25°C</u></li> <li>Product code: DUOR4600-P</li> </ul>	
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>	
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>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</li> <li>Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd, Cincinnati, OH 45241 (800) 438-2647</li> </ul>	
• <b>Emergency telephone number:</b> ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)	
2 Hazard(s) identification	
Classification of the substance or mixture	
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Met. Corr.1 H290 May be corrosive to metals.	
Met. Corr.1 H290 May be corrosive to metals. Skin Irrit. 2 H315 Causes skin irritation.	
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	(Cont'd. of page 1)
P280	Wear protective gloves and eye protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.
· Other hazard	C There are no other hazardo not otherwise closefied that have been identified

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

### **3** Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Components:		
7732-18-5	Water	88.97%
	Sulfuric acid	6.00%
	Wet. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
7783-83-7	Ferric Ammonium Sulfate	5.00%
7783-85-9	Ferrous ammonium sulfate	0.03%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
· Additional	information:	
Cantha list	ad impredient(a) the identity and/ar event nerespitence(a) are being withheld as a trade o	

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:

Immediately rinse with water.

If skin irritation continues, 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. Seek medical attention.
- Most important symptoms and effects, both acute and delayed:
- Gastric or intestinal disorders when ingested.
- Nausea in case of ingestion.

Acidosis

Causes skin and eye irritation.

• **Danger:** Danger of impaired breathing.

· Indication of any immediate medical attention and special treatment needed:

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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

<sup>•</sup> Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

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

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

### Methods and material for containment and cleaning up

Use calcium oxide as a neutralizing agent.

Clean the affected area carefully; suitable cleaners are:

Water

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

#### <sup>·</sup> Handling

Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

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

#### <sup>•</sup> Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· Information about storage in one common storage facility:

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Store away from foodstuffs. Do not store together with alkalis (caustic solutions). Store away from oxidizing agents. Store away from metals.

Further information about storage conditions: Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

#### 8 Exposure controls/personal protection

#### <sup>·</sup> 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.

Avoid contact with the eyes and skin.

- Engineering controls: Provide adequate ventilation.
- Breathing equipment: For large spills, respiratory protection may be advisable.
- Protection of hands:



Protective gloves

Not required under normal conditions of use.

Material of gloves

Natural rubber, NR Nitrile rubber, NBR

Neoprene gloves Butyl rubber, BR

Fluorocarbon rubber (Viton)

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:** Acid resistant protective clothing.

Limitation and supervision of exposure into the environment No special requirements.

• Risk management measures No special requirements.

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9 Physical and chemical properties		
Information on basic physical and chemical properties		
· Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
• Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	105-110 °C (221-166 °F)	
· Flash point:	The product is not flammable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
<ul> <li>Oxidizing properties:</li> </ul>	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:		
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
<sup>•</sup> Other information	No relevant information available.	

## 10 Stability and reactivity

#### <sup>•</sup> Reactivity:

Corrosive action on metals. Corrodes copper and brass. 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.

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Reacts with alkali (		
Reacts with oxidizin	void Excessive heat.	
· Incompatible ma		
Metals.		
Alkalis		
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Sulfur dioxide	/	
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### 12 Ecological information

#### <sup>·</sup> 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.

#### <sup>•</sup> Additional ecological information

#### · General 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.

### 13 Disposal considerations

#### <sup>·</sup> 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.

#### <sup>·</sup> Uncleaned packagings

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

4 Transport information	
<sup>··</sup> UN-Number ·· DOT, ADR/RID/ADN, IMDG, IATA	UN3264
<ul> <li>UN proper shipping name</li> <li>DOT</li> <li>ADR/RID/ADN, IMDG, IATA</li> </ul>	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric acid) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (SULPHURIC ACID)
· Transport hazard class(es)	
·DOT	
Class	8
· Label	8

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DG, IATA	
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acking group DT, ADR/RID/ADN, IMDG, IATA	III
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Decial precautions for user Inzard identification number (Kemler code): IS Number: Egregation groups	Warning: Corrosive substances 80 F-A,S-B Acids
ansport in bulk according to Annex II of ARPOL73/78 and the IBC Code	Not applicable.
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· 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.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

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

OSHA: Occupational Safety & Health Administration

Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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