

## MATERIAL SAFETY DATA SHEET

### EC-ORP-QUIN086 (ORP Quinhydrone 86 mV Solution)

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**PRODUCT IDENTIFICATION**

Product Name:	ORP Quinhydrone 86 mV Solution
Chemical Family:	Aromatic Compounds
Formula:	Complex
Product Use:	Laboratory and Industrial Reagent
Eutech SAF-T-Data System:	Health = 2 Moderate, Flammability = 1 Slight, Reactivity = 1, Contact = 1

**SAFETY**

For laboratory and industrial use only. Not for internal consumption. Avoid contact with eyes and skin

Component A: Quinhydrone	
CAS NO:	106-34-3
WEIGHT:	1.0%
OSHA/PEL	NA
ACGIH/TLV	NA
Component B: Potassium Dihydrogen Phosphate	
CAS NO:	7778-77-0
WEIGHT	<0.5%
OSHA/PEL	NA
ACGIH/TLV	NA
Component B: Disodium Hydrogen Phosphate	
CAS NO:	7558-79-4:
WEIGHT	>0.5%
OSHA/PEL	NA
ACGIH/TLV	NA

**PHYSICAL DATA**

Appearance & Odor:	Liquid, black & strong pungent odor
Physical State:	Liquid
Boiling Point:	121.4 °C
Vapour Pressure (mmHg):	NA
Melting Point:	NA
Vapour Density (T=0 °C):	7.6

Specific Gravity:	1.4
% Volatiles by Volume:	0
Solubility:	NA
pH:	4
Odor Threshold (ppm):	NA
Coefficient Water/Oil Distribution:	1
Evaporation Rate:	NA

**FIRE AND EXPLOSION DATA**

Flash Point (Close Cup):	NA
Auto ignition Temperature:	NA
Flammable Limits:	Upper, NA Lower, NA
Fire Extinguishing Media:	Acid waste. Use extinguishing media appropriate for surrounding fire.
Special Fire-fighting procedures:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive pressure mode.
Unusual Fire and Explosion Hazards:	None identified
Toxic Gases produced:	None identified
Explosion data-sensitivity to mechanical impact:	None identified.
Explosion data-sensitivity to static discharge:	None identified.

**HEALTH HAZARD DATA**

Threshold limit value (TLV/TWWA):	Not established.
Toxicity of Components:	Not established
Carcinogenicity:	None identified.
Reproductive effects:	None identified.
Inhalation:	Irritation of upper respiratory tract
Skin contact:	Irritation
Eye contact:	Irritation
Skin absorption:	None identified
Ingestion:	Ingestion of large quantities may cause gastro-intestinal irritation, nausea, vomiting, diarrhea
Chronic effects:	None identified.
Target organs:	None identified
Primary routes of entry:	Inhalation

**EMERGENCY AND FIRST-AID PROCEDURES**

Ingestion :	If swallowed and the person is conscious, flush out stomach and seek medical attention
Inhalation:	Remove to fresh air
Skin contact:	Irritation
Eye contact:	In case of eye contact, immediately flush with plenty of water
Acute:	None
Chronic:	No
Flammability:	No
Pressure:	No
Reactivity:	Nil.
Extremely hazardous substance:	No
Toxic chemicals:	None
TSCA Inventory:	No

**REACTIVITY DATA**

Stability:	Stable
Condition to avoid:	Humidity
Incompatibles:	Nil

Decomposition products:	Nil
Hazardous polymerization:	Will not occur
<b>SPILL AND DISPOSAL PROCEDURES</b>	
Steps to be taken in the events of a spill or discharge:	Wash away with water.
Disposal procedure:	Dispose in accordance with all applicable federal, state and local environmental regulations.
Ventilation:	Use adequate general or local exhaust ventilation
Respiratory protection:	None
Eye/Skin protection:	Safety goggles, proper gloves, lab coat
<b>STORAGE AND HANDLING PRECAUTIONS</b>	
SAF-T-Data*Storage colour code:	Orange.
Storage requirements:	Keep container tightly closed. Keep in cool dark area away from light.

**TRANSPORTATION DATA AND ADDITIONAL INFORMATION**

Domestic (D.O.T.)

Proper shipping name:	N/A (Not Regulated for Shipping)
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International (I.M.O.)

Proper shipping name:	N/A (Not Regulated for Shipping)
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Marine pollutants:	Acid
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Air (I.C.A.O.)

Proper shipping name:	N/A (Not Regulated for Shipping)
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