# SAFETY DATA SHEET

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# ORP ISA & MLC Light's Solution

### SECTION 1 IDENTIFICATION

#### MYRON L<sup>®</sup> COMPANY 2450 IMPALA DRIVE, CARLSBAD, CA 92010

INFORMATION PHONE # : (760) 438-2021, Contact either Jerry Adams or Gary Robinson BUSINESS HOURS : Monday through Friday 7:00-3:30 p.m. (Pacific Time) This and additional Myron L Safety Data Sheets (SDS) are available on the World Wide Web at: http://www.myronl.com

PRODUCT: Sensor Conditioner/ORP Standard

CATALOG NUMBERS: Ionic Strength Adjuster, ORP ISA Sensor

Conditioner, MLC Light's Solution, ORP CAL KIT, ORP470, DPDE Kit

### SECTION 2 HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

MAY BE HARMFUL IF NOT HANDLED CORRECTLY AND USED AS INTENDED.

CORROSION •Skin Corrosion/Burn •Eye Damage •Corrosive to Metals





POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:Inhalation may cause severe irritation of the respiratory system. Liquid may cause severe burns to skin<br/>and eyes. Ingestion is harmful and may be fatal.ROUTES OF ENTRY:Inhalation, ingestion, eye contact and skin contact.CARCINOGENICITY:WARNING: This product contains a chemical(s) known to the state of California to cause cancer.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME: Sulfuric Acid and Ferric/Ferrous salts solution

TRADE NAME & SYNONYMS: Sensor Conditioner-300mV vs. Ag/AgCl MLC Light's Solution, 470 mV ORP Calibration Solution CHEMICAL FAMILY: Inorganic Acid Solution

CAS #: Sulfuric Acid Ferrous Ammonium Sulfate, 6-Hydrate Ferric Ammonium Sulfate, 12-Hydrate:	#7664-93-9 #7783-85-9
(Anhydrous)	#10138-04-2
(Dodecahydrate)	#7783-83-7
Water	#7732-18-5

CHEMICAL FORMULA: H<sub>2</sub>SO<sub>4</sub>/Fe(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>•6H<sub>2</sub>O/FeNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>•12H<sub>2</sub>O

# SECTION 4 FIRST-AID MEASURES

FIRST AID PROCEDURES: EYE CONTACT: SKIN CONTACT: INGESTION:

Immediately flush eyes with water for at least 15 minutes. Seek medical attention. Wash thoroughly with plenty of water. Seek medical attention as needed. Do not induce vomiting. If conscious, give water, milk or milk of magnesia. Seek medical attention.

### SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	Lel N/A	Uel N/A
EXTINGUISHING MEDIA Dry chemical or carbon dioxide.	Do not use water				

SPECIAL HAZARDS & PROCEDURES Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

**UNUSUAL FIRE & EXPLOSION HAZARDS** Reacts with most metals to produce hydrogen gas, which can form an explosive mixture with air. A violent exothermic reaction occurs with water generating extreme heat.

# SECTION 6 ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Neutralize spill and/or washings with soda ash, sodium bicarbonate, or lime. Do not use water. Containerize for later disposal. Calcium carbonate or Calcium hydroxide are suggested as low natural acid neutralizers.

# SECTION 7 HANDLING AND STORAGE

HANDLING: Normal use does not generate a hazardous situation when handled in accordance with good industrial hygiene and safety practices.STORAGE: Keep container tightly closed. Store in corrosion-proof area. Keep containers out of sun and away from heat.

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### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

THRESHOLD LIMIT VALUE:	1 mg/m³ (ppm)
RESPIRATORY PROTECTION:	Self-contained breathing apparatus is advised if TLV is exceeded.
VENTILATION:	Use general or local exhaust ventilation to meet TLV requirements.
EYE PROTECTION:	Recommended safety glasses and face shield.
PROTECTIVE GLOVES:	Recommended general purpose rubber gloves.
PROTECTIVE CLOTHING:	Recommended lab coat or safety apron.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg ( °C )	100°C	SPECIFIC GRAVITY	1.0+
FREEZE POINT ( °C )	0°C	SOLUBILITY IN H <sub>2</sub> O,% BY WT. @ 20° C	>10%
VAPOR PRESSURE @ 20° C	N/A	APPEARANCE AND ODOR	CLEAR
VAPOR DENSITY	N/A		SOLUTION
PERCENT VOLATILES BY VOLUME	N/A	EVAPORATION RATE	N/A
		pH:	0.30рн-0.90рн

### SECTION 10 STABILITY AND REACTIVITY

<b>STABILITY:</b> Product is stable under normal conditions of use and storage.	<b>CONDITIONS TO AVOID</b> Heat; Note: May emit toxic fumes and gases when heated to decomposition.
<b>REACTIVITY:</b> Incompatibles, most metals, organic materials, strong reducing agents, combustible materials, strong bases, strong oxidizing agents.	MATERIALS TO AVOID X WATER X ACIDS X BASES OTHER SPECIFY Ammonia, oxides of sulfur, and oxides of nitrogen.

### SECTION 11 TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** LD50 (oral-Rat) (mg/kg) -2140; details of toxic effects not reported other than lethal dose. **TOXICOLOGICAL FINDING:** Produces toxic sulfur dioxide gases. Organs targeted are respiratory system, eyes, skin, and teeth. Chronic overexposure may result in lung damage.

## SECTION 12 ECOLOGICAL INFORMATION

**ECOTOXICITY:** No data available. No relevant information available. **OTHER ADVERSE EFFECTS:** No relevant information available.

### SECTION 13 DISPOSAL CONSIDERATIONS

EPA WASTE NO. AND DISPOSAL TREATMENT: DOO2, DOO3 (corrosive, reactive waste)

NOTE: Neutralize with soda ash or sodium bicarbonate. Containerize the neutralized waste.

Always contact a permitted waste disposer (TSD) to assure compliance and accordance with federal, state, and local regulations.

### SECTION 14 TRANSPORT INFORMATION

DOT Shipping Name.....corrosive liquid, Sulfuric Acid

DOT Number.....UNI830 Class:8 corrosive material (liquid)

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### SECTION 15 REGULATORY INFORMATION

TSCA INVENTORY : THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

<u>COMPONENT</u>
<b>SARA_EHS (302)</b> N/A
SARA EHS TOQ (LBS)
<u>CERCLA RQ (LBS)</u> N/A
OSHA_FLOOR LIST
<b>SARA 313</b> N/A
DeMinimis for SARA 313 (%) N/A

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** This information is believed to be accurate and represents the best information currently available to us; however, we make no warranty of merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from the use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and purposes.

NFPA Hazard Ratings

Health: 3 severe (poison) Flammability: 0 Reactivity: 3 severe (water reactive) Special Hazards: N/A

SDS APPROVED BY:	>
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