

SENSOREX™

MATERIAL SAFETY DATA SHEET (MSDS)

Section 1 - Chemical Product and Company Identification

Catalog Number(s)
CLDA - 2015

Product Name
Chlorine Dioxide Sensor Electrolyte

Manufacturer's Name
Sensorex Corporation

Emergency Telephone Number (24 hr)

Address(number,Street,City,StateandZipCode
11751 Markon Drive

Telephone number for Information
714-895-4344

Garden Grove, CA. 92841 USA

Date prepared
05-01-2008

Section 2 - Composition/Ingredient Information

Component	CAS Registry #	Percent Weight	Exposure Limits	
			ACGIH TLV	OSHA PEL
Potassium Chloride	7447-40-7	0.75%	N/A	N/A
Potassium Phosphate Monobasic	7778-77-0	6.8%	N/A	N/A
o-Phosphoric Acid,85% w/w	7664-38-2	13.0%		
Deionized Water	7732-18-5	Balance	N/A	N/A

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

DANGER! CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. HARMFUL IF INHALED OR SWALLOWED.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN,
EYE LENS AND CORNEA

POTENTIAL HEALTH EFFECTS:

TARGET ORGANS: eyes, skin, mucous membranes and digestive tract

EYE CONTACT: Corrosive to eyes.

INHALATION: Toxic by inhalation. Corrosive to respiratory system.

SKIN CONTACT: Corrosive to skin.

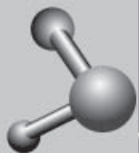
INGESTION: Toxic if swallowed. May cause burns to mouth, throat and stomach.

CHRONIC EFFECTS: Repeated skin exposure can produce local skin destruction and dermatitis. Repeated or prolonged exposure to the substance can produce lung damage. Repeated or prolonged contact with spray or mist can produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

CARCINOGENICITY: No known significant effects

TERATOLOGY (BIRTH DEFECT INFORMATION): No known significant effects

REPRODUCTION INFORMATION: No known significant effects



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MATERIAL SAFETY DATA SHEET (MSDS)

Section 4 - First Aid Measures

EYE CONTACT: Irrigate immediately with large quantity of water for at least 15 minutes. Get medical attention immediately.

INHALATION: Get medical attention immediately. Remove victim to fresh air. Provide artificial respiration if necessary only by trained personnel. It may be dangerous for the person giving mouth-to-mouth resuscitation. If breathing is difficult, give oxygen.

SKIN CONTACT: Get medical attention immediately. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Remove contaminated clothing and shoes. Wash clothing and shoes before reuse.

INGESTION: Get medical attention immediately. Wash out mouth with water. Move to fresh air. Give water if person is conscious. Do not induce vomiting unless directed by medical personnel. If vomiting occurs, keep head low so vomit does not enter lungs.

Section 5 - Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS:

LFL: N/A

UFL: N/A

EXTINGUISHING MEDIA: Use an extinguishing agent suitable for surrounding the fire.

FIRE AND EXPLOSION HAZARDS: Not considered to be a fire hazard.

EFFECTIVE DATE: 05-01-2008

MSDS CLDA-2015, REV A 05-01-2008

PAGE 1 of 4

FIRE FIGHTING INSTRUCTIONS: Non flammable

FIRE FIGHTING EQUIPMENT: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece, in positive pressure mode.

Section 6 - Accidental Release Measures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If emergency personnel are not available, contain spill. For small spills, add absorbent such as soil or vermiculite. Scoop up material and place in a sealable liquid-proof container for disposal. For large spills, dike spilled material to ensure runoff does not reach waterway.

Section 7 - Handling and Storage

Do not ingest. Do not get in eyes, skin or clothing. Keep container closed. Use only with adequate ventilation. Do not breathe vapor or mist. Wash thoroughly after handling.

Keep in tightly closed container, store in a cool dry, well ventilated area.

Section 8 - Exposure Controls/Personal Protection

ACGIH TLV (United States, 1/2006)

STEL: 3mg/m³ 15 minutes. Form: All Forms /// TWA: 1mg/m³ 8hours. Form: All Forms

NIOSH REL(United States, 12/2001)

STEL: 3mg/m³ 15 minutes. Form: All Forms /// TWA: 1mg/m³ 10hours. Form: All Forms

OSHA PEL (United States, 8/1997)

TWA: 1mg/m³ 8hours. Form: All Forms

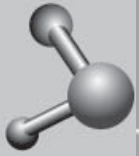
OSHA PEL 1989 (United States, 3/1989)

STEL: 3mg/m³ 15 minutes. Form: All Forms /// TWA: 1mg/m³ 8hours. Form: All Forms

EFFECTIVE DATE: 06-20-2008

MSDS CLDA-2015 REV B 06-20-2008

PAGE 2 of 5



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MATERIAL SAFETY DATA SHEET (MSDS)

Section 8 - Exposure Controls/Personal Protection (cont.)

RESPIRATORY PROTECTION: For conditions of use where exposure to dust or mist is apparent, a properly fitted, air-purifying or air-fed respirator must be worn.

SKIN PROTECTION: Wear impervious clothing, boots, chemical resistance gloves, lab coat apron or coveralls to prevent skin contact..

EYE PROTECTION: Use chemical safety goggles and or a full face shield where splash is possible. Maintain eyewash fountain.

Section 9 - Physical and Chemical Properties

APPEARANCE: Clear liquid

ODOR: Odorless

SOLUBILITY IN WATER: 100%

RELATIVE DENSITY: 1.864 (o-Phosphoric acid)

EVAPORATION RATE: 0.36(water) compared with (n-Butyl acetate =1)

BOILING POINT(°C): 100

FREEZE POINT(°C): 0

VAPOR PRESSURE @ 20C: N/A

pH: 1.46

Section 10 - Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions of use and storage.

INCOMPATIBILITY: Metals and alkalis.

HAZARDOUS POLYMERIZATION: Will not occur.

REACTIVITY: Explosive in the presence of heat and oxidizers

CONDITIONS TO AVOID: Heat, oxidizers and incompatibles.

Section 11 - Toxicological Information

TOXICITY DATA United States:

Product /Ingredient Name	Test	Result	Route	Species
phosphoric acid	LD50	1530 mg/kg	Oral	Rat
	LD50	2740 mg/kg	Dermal	Rabbit
	LC50	850 mg/m3 (1 hr)	Inhalation	Rat

Chronic effects on humans: Contains material which causes damage to the following organs: upper respiratory tract, skin, eye lens and cornea.

Other toxic effects on humans: Very hazardous in case of skin contact (corrosive), of eye contact (corrosive), of ingestion and inhalation (lung irritant).

Specific effects:

Carcinogenic effects: none known

Mutatgenic effects: none known

Teratogenic effects: none known

Sensitization:

Ingestion: May cause burns to mouth, throat and stomach

Inhalation: Corrosive to respiratory system

Eyes: Corrosive to eyes

Skin: Corrosive to the skin



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MATERIAL SAFETY DATA SHEET (MSDS)

Section 12 - Ecological Information

ECOTOXICOLOGICAL INFORMATION: No known significant effects

PRODUCTS OF DEGRADATION: These products are phosphates and are less toxic than the product itself.

Section 13 - Disposal Considerations

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with all applicable regional, national and local laws and regulations.

Section 14 - Transportation Information

D.O.T. SHIPPING NAME: Phosphoric Acid Solution

D.O.T. HAZARD CLASS: 8

U.N. / N.A. NUMBER: UN1805

PACKING GROUP: III

Section 15 - Regulatory Information - (NOT ALL INCLUSIVE)

UNITED STATES

OSHA STATUS: o-Phosphoric acid, listed on this MSDS is considered hazardous by OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of hazardous material.

HCS Classification: Toxic Material, Corrosive Material, Target Organ Effects

U.S. Federal Regulations: TSCA STATUS: Listed on 8(b) inventory (o-phosphoric acid)
CERCLA REPORTABLE QUANTITY: None
SARA SECTION 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES: No
SARA SECTION 302/304 Emergency planning notification: No
SARA SECTION 302/304/311/312 HAZARDOUS CHEMICALS: Phosphoric acid - immediate health hazard.
Clean Water Act (CWA) 311: Phosphoric acid

State Regulations: Pennsylvania RTK: Phosphoric Acid (environmental hazard, generic environmental hazard)
Massachusetts RTK: Phosphoric Acid
New Jersey: Water, Phosphoric Acid

CANADA

WHMIS (Canada): Class E corrosive material

CEPA DSL/CEPA NDSL: CEPA DSL: Water, phosphoric acid

EU REGULATIONS: R34- Causes burns
S2- Keep out of reach of children
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.



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MATERIAL SAFETY DATA SHEET (MSDS)

Section 15 - Regulatory Information - (NOT ALL INCLUSIVE) cont.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

INTERNATIONAL REGULATIONS: Austria (NICNAS): Water, Phosphoric Acid
China: Phosphoric Acid
Germany water class: Phosphoric Acid
Japan (METI): Water, Phosphoric Acid
Korea (TCCL): Water, Phosphoric Acid
Philippines (RA6969): Water, Phosphoric Acid

Section 16 - Other Information

NFPA Ratings:	Health: 2	Flammability: 0	Reactivity: 0	Special Notice Key: corrosive
HMIS Ratings:	Health: 2	Flammability: 0	Reactivity: 0	Special Notice Key: corrosive

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