

Section 1 - Chemical Product and Company Identification

GHS Product Identifier

35201-58, 35640-70

Product Name

Dissolved Oxygen Sensor Electrolyte for 35201-56

Manufacturer Name

Cole Parmer

Recommended Use/ Restrictions on Use

Use as refill electrolyte for dissolved oxygen amperometric sensor. Not for household use.

Address (Number, Street, City, State and Zip Code)

625 E. Bunker Ct, Vernon Hills, IL 60061

Emergency Telephone Number (24 hr) (800) 222-1222

American Association of Poison Control Centers

Telephone Number for Information

800-323-4340

Section 2 - Hazards Identification

GHS Classification: Reproductive toxicity (Category 1B) H360

Pictogram:

GHS Label Elements
Signal Word:
Danger
Hazard Statements:

H360 - May damage fertility or the unborn child.

Precautionary Statements:

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 - Dispose of contents/container to comply with local, state and federal regulations.

Other hazards not classified or covered by GHS: None

Section 3 - Composition/Ingredient information

Chemical Identity	CAS Registry #	EC#	Percent Weight (%)
Sodium Tetraborate Decahydrate	1303-96-4	215-540-4	4
Sodium Chloride	7647-14-5	231-598-3	5.9
Deionized Water	7732-18-5	231-791-2	Balance

Section 4 - First Aid Measures

Description of Necessary First Aid Measures:

General: Consult a physician. Present this safety data sheet to the doctor in attendance. Move out of dangerous area.

IF INHALED: Move person into fresh air. If not breathing, perform rescue breathing and contact emergency medical personnel. If breathing is difficult, give oxygen.

SKIN CONTACT: Wash affected area with soap and water.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

EYE CONTACT: Irrigate immediately with large quantity of water for at least 15 minutes. Consult a physician.

Most important symptoms/effects, acute and delayed:

INHALATION: May cause irritation of respiratory tract.

SKIN CONTACT: May cause slight irritation.

EYE CONTACT: May cause slight irritation.

INGESTION: Irritation of gastric/intestinal mucosa.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available

Section 5 - Fire-fighting Measures

Suitable extinguishing media:

SUITABLE: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

UNSUITABLE: No unsuitable extinguishing media known.

Specific hazards arising from the chemical (combustion products):

N/A. Not flammable

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus for fire-fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency responders:

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Refer to Section 8 for Personal Protective Equipment.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

Section 7 - Handling and Storage

Precautions for safe handling:

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

Conditions for safe storage, including any incompatibles:

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

INCOMPATIBLE MATERIALS: Strong acids.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Occupational exposure limits:

Sodium tetraborate decahydrate (1303-96-4).

ACGIH TLV	STEL: 6mg/m ³ 15 minutes	Forms: all forms	Upper respiratory tract irritation. Not classifiable as a human carcinogen.
	TWA: 2mg/m ³ 8 hours	Forms: all forms	
NIOSH REL	TWA: 5mg/m ³ 8 hours	Form: all forms	

Appropriate Engineering Controls:

Facilities storing or utilizing this product should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep any airborne concentrations low.

Individual protection measures, personal protective equipment:

RESPIRATORY PROTECTION: Use respirator.

SKIN PROTECTION: Wear appropriate protective gloves and clothes to prevent skin exposure.

EYE PROTECTION: Recommended. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 European Standard EN166.

Section 9 - Physical and Chemical Properties

APPEARANCE: Clear, colorless liquid	pH: 8.6
ODOR: Odorless	BOILING POINT (°C): Approximately 100
ODOR THRESHOLD: N/A	MELTING POINT (°C): Approximately 0
FLASH POINT: N/A	FLAMMABILITY: N/A
VAPOR PRESSURE: No data available	VAPOR DENSITY: No data available
RELATIVE DENSITY: 1	SOLUBILITY IN WATER: Infinite
PARTITION COEFFICIENT (n-octanol/water): No data available	
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available	
EVAPORATION RATE compared with (n-butyl acetate = 1): 0.36 (water)	
VISCOSITY: No data available	AUTO-IGNITION TEMPERATURE: N/A
	DECOMPOSITION TEMPERATURE: No data available

Section 10 - Stability and Reactivity

REACTIVITY: Dilute saline solution stable in most environments.	CHEMICAL STABILITY: Stable under normal conditions of use and storage.
CONDITIONS TO AVOID: Extreme heat	POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.
INCOMPATIBLE MATERIALS: Strong acids	HAZARDOUS DECOMPOSITION PRODUCTS: No data available.

Section 11 - Toxicological Information

Acute toxicity: Not classified.
Skin corrosion/irritation: Not classified.
Serious eye damage/irritation: Not classified.
Respiratory or skin sensitization: Not classified.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified.
Reproductive toxicity: Category 1B H360 May damage fertility or the unborn child.
STOT Single exposure: Not classified.
STOT Repeated exposure: Not classified.
Aspiration hazard: Not classified.
Symptoms related to the physical, chemical and toxicological characteristics:
INHALATION: No data available.
SKIN CONTACT: No data available.
EYE CONTACT: No data available.
INGESTION: No data available.
AFTER ABSORPTION OF LARGE QUANTITIES: No data available.
AFTER REPEATED EXPOSURE: No data available.

Delayed and immediate effects also chronic from short and long term exposure:
No data available

Numerical measure of toxicity:
TOXICITY DATA United States: Sodium Tetraborate Decahydrate LD50 4500 mg/kg oral rat. LD50 10000 mg/kg dermal rabbit.

Section 12 - Ecological Information

ECOTOXICITY:

Toxicity to fish	LC50 - <i>Carassius auratus</i> (goldfish) - 178 mg/L - 72 hr.
Toxicity to aquatic invertebrates	EC50 - <i>Daphnia magna</i> (water flea) - 1085 - 1402 mg/L hr.
Toxicity to algae	IC50 - <i>Desmodesmus subspicatus</i> (green algae) - 158 mg/L - 96 hr

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: No data available

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

UN NUMBER: Not dangerous goods
UN PROPER SHIPPING NAME: Not dangerous goods
TRANSPORT HAZARD CLASS(ES): N/A
PACKING GROUP: Not hazardous
ENVIRONMENTAL HAZARD: No supplementary information available

Section 15 - Regulatory Information - (NOT ALL INCLUSIVE)

UNITED STATES

OSHA STATUS: The items listed on this SDS do not contain any hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health or safety. These items do not meet the OSHA Hazard Communication Standard (29CFR 1910.1200) definition of hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory.

Section 16 - Other Information

Date of preparation: March, 2015

This SDS replaces Dissolved Oxygen Sensor electrolyte refill solution RevB 6-20-2008.

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Sensorex Corporation assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

Full text of Hazard Statements referred to in Section 2:

H360 May damage fertility or the unborn child.