

Section 1 - Chemical Product and Company Identification

GHS Product Identifier

 DO7002, DO7KIT, DO7400, DO7441,
DO7442, DO7050, DO7051

Product Name

Dissolved oxygen electrolyte (for all DO7 series sensors), 1M Sodium Carbonate

Manufacturer Name

Sensorex Corporation

Recommended Use/ Restrictions on Use

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

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

11751 Markon Drive

Garden Grove, CA. 92841 USA

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

American Association of Poison Control Centers

Telephone Number for Information

714-895-4344

Section 2 - Hazards Identification

GHS Classification: Eye irritation (Category 2A), H319

Pictogram:

GHS Label Elements
Signal Word:
Warning
Hazard Statements:

H 319 - Causes serious eye irritation.

Precautionary Statements:

P264 - Wash skin thoroughly after handling.

P280 - Wear eye protection/face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

Other hazards not classified or covered by GHS: None

Section 3 - Composition/Ingredient information

Chemical Identity	CAS Registry #	EC#	Percent Weight (%)
Sodium Carbonate	497-19-8	207-838-8	11
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: No data available

SKIN CONTACT: No data available

EYE CONTACT: No data available

INGESTION: No data available

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:

No exposure limits noted for ingredient(s).

Appropriate Engineering Controls:

Handle in accordance with good industrial hygiene and safety practice. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

ODOR: None

ODOR THRESHOLD: N/A

FLASH POINT: N/A

VAPOR PRESSURE: No data available

RELATIVE DENSITY: 1

pH: 11 - 12

BOILING POINT (°C): Approximately 100

MELTING POINT (°C): -20 - 0

FLAMMABILITY: N/A

VAPOR DENSITY: No data available

SOLUBILITY IN WATER: Water soluble

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: N/A

AUTO-IGNITION TEMPERATURE: N/A

DECOMPOSITION TEMPERATURE (°C): N/A

Section 10 - Stability and Reactivity

REACTIVITY:

Evolves carbon dioxide gas on contact with acids.

CONDITIONS TO AVOID:

Extreme heat

INCOMPATIBLE MATERIALS:

Strong acids, strong oxidizers

CHEMICAL STABILITY:

Stable under normal conditions of use and storage.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

Section 11 - Toxicological Information

Acute toxicity: Not classified.

Skin corrosion/irritation: Mild skin irritation (sodium carbonate)

Serious eye damage/irritation: Eye irritation (sodium carbonate)

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

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: Mild skin irritation.

EYE CONTACT: Eye irritation.

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 carbonate LD50 oral - rat - 4090 mg/kg

LC50 inhalation - rat - 5750 mg/kg - 2 hr

Section 12 - Ecological Information

ECOTOXICITY:

Sodium carbonate

Toxicity to fish

LC50 - *Lepomis macrochirus* (bluegill) - 300 mg/L - 96 hr.

Toxicity to aquatic invertebrates

EC50 - *Daphnia magna* (water flea) - 265 mg/L - 48 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

Material does not have an EPA waste number and is not listed as waste. Always contact a permitted waste disposal professional to assure compliance with federal, state and local regulations.

Section 14 - Transportation Information

UN NUMBER: Not classified as hazardous material

UN PROPER SHIPPING NAME: Not dangerous goods

TRANSPORT HAZARD CLASS(ES): Not dangerous goods

PACKING GROUP: Not dangerous goods

ENVIRONMENTAL HAZARD: Not classified as hazardous material

Section 15 - Regulatory Information - (NOT ALL INCLUSIVE)

UNITED STATES

OSHA STATUS: The items listed on this Safety Data Sheet 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 (29 CFR 1910.1200) definition of hazardous material.

TSCA STATUS: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY: None.

SARA TITLE III:

Section 302 Extremely Hazardous Substances: No.

Section 311/312 Hazardous Categories: Acute Health Hazard (Sodium carbonate).

Section 313 Toxic Chemicals: No.

Massachusetts Right to Know Components - No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components:

Sodium carbonate CAS 497-19-8

New Jersey Right to Know Components:

Sodium carbonate CAS 497-19-8

California Prop. 65 Components--This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information

Date of preparation: April, 2015.

This Safety Data Sheet replaces MSDS DO7 Electrolyte, REV A.

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:

H319 - Causes serious eye irritation



11751 Markon Dr.
Garden Grove, CA 92841 USA
Tel: 714-895-4344
Fax: 714-894-4839
E-mail: info@sensorex.com
www.sensorex.com