

Safety data sheet (sds)

Review Date: April 18, 2025

SECTION 1: IDENTIFICATION

Product Identifier: reconstitution solution (ruo)

Synonyms: Aqueous buffered diluent; RUO diluent; premium Type I borosilicate glass dropper vials prefilled with clean solution

Company: Clear Choice Labs Inc

General Information: x@reconx.bio

Emergency Contact (24/7): x@reconx.bio

Note: For general and safety inquiries, contact x@reconx.bio.

Telephone: (909) 766-1518

Catalog No.: (CCL-2PK)

Lot/Batch No.: (250225)

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Not classified as hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS criteria for mixtures, based on available data.

Signal Word: None

Hazard Statements: Not expected to present a significant hazard under normal laboratory handling.

Precautionary Statements:

- P264: Wash hands and exposed skin after handling.
- P270: Do not eat, drink, or smoke when using this product.

Other Hazards: None known under normal laboratory handling.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Description: Buffered aqueous solution for research use.

Component	CAS No.	Concentration	GHS Status
Water (purified)	7732-18-5	> 95%	Not hazardous
Buffering salts (proprietary blend)	mixture	< 5%	Not classified
Preservative system (proprietary, non-hazardous at use concentrations)	mixture	≤ 1%	Not classified

Note: Ingredients are not present at concentrations requiring disclosure as hazardous per 29 CFR 1910.1200. Exact percentages are withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

General Advice: If symptoms persist, seek medical attention. Show this SDS to healthcare provider.

Inhalation: Move to fresh air. If irritation persists, seek medical advice.

Skin Contact: Wash with soap and water. Remove contaminated clothing. If irritation occurs, get medical attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do—continue rinsing. If irritation persists, get medical advice.

Ingestion: Rinse mouth. Do not induce vomiting. Give water to drink if person is conscious. Seek medical advice if unwell.

Most Important Symptoms/Effects, Acute & Delayed: Mild irritation to eyes/skin possible. No known chronic effects expected from normal lab exposure.

Indication of Immediate Medical Attention: Not ordinarily required.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use media appropriate for surrounding fire. Aqueous solution—product is not expected to sustain combustion.

Specific Hazards Arising from the Chemical: None known under normal conditions. Thermal decomposition may produce irritating vapors.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective gear as appropriate for surrounding fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use standard lab PPE; avoid contact with eyes and skin.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not allow large quantities to enter drains or waterways.

Methods for Containment/Cleanup: Absorb with inert material (e.g., paper towel, absorbent pads). Wipe area with water and mild detergent. Dispose of waste in accordance with local regulations. Floor may be slippery—use care.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: For laboratory use by trained personnel. Avoid contact with eyes and prolonged skin contact. Do not pipette by mouth. Keep containers closed when not in use. Use in a clean environment to preserve product integrity.

Conditions for Safe Storage: Keep sealed in original packaging at typical room/warehouse conditions. No special temperature requirements for storage and transport. Avoid extremes (freezing or sustained temperatures above $-50\text{ }^{\circ}\text{C}/122\text{ }^{\circ}\text{F}$). Keep container closed and upright.

Incompatibilities: Strong oxidizers and reactive chemicals; avoid contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No components have occupational exposure limits established for this mixture at supplied concentrations.

Engineering Controls: Use in a well-ventilated area or standard laboratory environment.

Personal Protective Equipment (PPE):

- **Eye/Face:** Safety glasses with side shields or goggles.

- **Skin/Hands:** Nitrile or equivalent laboratory gloves.

- **Body:** Lab coat or protective garment.

- **Respiratory:** Not normally required. Use NIOSH-approved respiratory protection if aerosols or mists may be generated and ventilation is inadequate.

Hygiene Measures: Wash hands after handling; avoid contact with skin, eyes, and clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid in premium glass vials

Odor: None to mild

pH: 6.8–7.4 (typical)

Melting/Freezing Point: $\sim 0\text{ }^{\circ}\text{C}$ (aqueous)

Boiling Point/Range: $\sim 100\text{ }^{\circ}\text{C}$ (aqueous)

Flash Point: Not applicable (aqueous solution)

Flammability: Not flammable

Vapor Pressure: Similar to water

Vapor Density: Similar to water

Relative Density: ~ 1.0 ($\text{H}_2\text{O} = 1$)

Solubility: Completely miscible with water

Partition Coefficient (n-octanol/water): Not determined

Viscosity: Water-like

Explosive/Oxidizing Properties: None known

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use, storage, and transport.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Extreme temperatures, contamination, prolonged light exposure.

Incompatible Materials: Strong oxidizers; reactive chemicals.

Hazardous Decomposition Products: None expected under normal use. Thermal decomposition may produce irritating vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin/eye contact, incidental ingestion, inhalation of mists.

Acute Effects: May cause temporary eye/skin irritation.

Chronic Effects: No data indicating significant chronic hazards at intended use concentrations.

Sensitization: Not expected to be a skin sensitizer.

Carcinogenicity/Mutagenicity/Reproductive Toxicity: No components present at $\geq 0.1\%$ are listed by IARC, NTP, or OSHA as carcinogenic. No evidence of mutagenicity or reproductive toxicity expected at use concentrations.

Aspiration Hazard: Not applicable.

Numerical Measures: Not available for the mixture; based on data for components and similar products, low toxicity is expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be acutely hazardous to aquatic organisms at use concentrations.

Persistence/Degradability: Components expected to be readily biodegradable/dilutable.

Bioaccumulation: Not expected.

Mobility in Soil: High mobility due to water miscibility.

Other Adverse Effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with local, regional, national, and international regulations. Small laboratory quantities may be rinsed to drain with copious water if allowed by local regulations. Do not discharge significant quantities into waterways.

SECTION 14: TRANSPORT INFORMATION

US DOT / IATA / IMDG: Not regulated as dangerous goods.

UN Number: Not applicable

Proper Shipping Name: Not applicable
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable
Special Precautions for User: Protect from damage and leakage; keep upright.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

- OSHA: This product is not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

- TSCA: Components are exempt or listed.

State Regulations: No additional state-specific requirements identified for mixture at supplied concentrations.

SARA Title III (Sections 302/304/313): Not subject at supplied concentrations.

California Proposition 65: This product is not known to contain chemicals listed under Proposition 65 at reportable levels.

Intended Use Classification: Research Use Only (ruo). Not for human or veterinary administration. Not a medical device, diagnostic, or drug.

SECTION 16: OTHER INFORMATION

Training Advice: Handle according to good laboratory practices.

Key Abbreviations: GHS = Globally Harmonized System; OSHA = Occupational Safety and Health Administration; NIOSH = National Institute for Occupational Safety and Health.

Prepared By: Quality & Regulatory, Clear Choice Labs, Inc.

Review Date: April 18, 2025

Supersedes: Prior versions

Disclaimer: The information provided in this SDS is believed to be accurate as of the review date and is provided in good faith. It is intended to describe the product for health, safety, and environmental requirements and should not be construed as guaranteeing any specific property of the product. Users are responsible for ensuring suitability for their specific applications and for compliance with all applicable regulations.

LABEL/INSERT QUICK REFERENCE (FOR PACKAGING)

- Product: reconstitution solution (ruo)
- Handling: Lab use only. Not for human or veterinary use.
- Storage: Keep sealed at typical room/warehouse conditions; avoid extreme heat or freezing.
- **Contact:** x@reconx.bio
- Packaging: Individually sealed units; premium glass vials; triple-sealed, leak-resistant.