# UMBRELLA LAB SOLUTION

MATERIAL SAFETY DATA SHEET (MSDS / SDS) • OSHA 29 CFR 1910.1200 / GHS REV. 8 COMPLIANT

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Oxytocin • **CAS Number:** 50-56-6
**Intended Use:** Strictly intended for laboratory chemical synthesis, academic, and in-vitro research use. Not for human, veterinary, or clinical use.
**Manufacturer / Supplier:** Umbrella Lab Solution • **Website:** https://umbrellalabsolution.com • **Email:** info@umbrellalabsolution.com

## SECTION 2: HAZARDS IDENTIFICATION (GHS)

**GHS Classification:** Neuropeptide Hormone Standard. Acute Toxicity (Oral) - Cat 5; Eye Irritation - Cat 2B.
**Signal Word:** WARNING • **Hazard Statements:** H303: May be harmful if swallowed. H320: Causes eye irritation.
**Precautionary Statements:** P264: Wash skin thoroughly after handling. P280: Wear protective gloves and eye protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Substance:** Oxytocin • **CAS #:** 50-56-6 • **Assay Purity:** ≥ 99.0% (w/w) pure active standard.

## SECTION 4: FIRST-AID MEASURES

**First Aid Summary:** Wash thoroughly.
**Eye Contact:** Flush thoroughly with copious amounts of water for 15 minutes. **Skin:** Wash thoroughly with mild soap and water. **Inhalation:** Move to fresh air. **Ingestion:** Clean mouth with water. Never give anything by mouth to an unconscious person.

## SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical powder, or appropriate alcohol-resistant foam.
**Specific Hazards:** Thermal decomposition emits toxic fumes of carbon oxides, nitrogen oxides, and standard combustion products.
**Protective Equipment:** Full protective bunker gear with NIOSH-approved self-contained breathing apparatus (SCBA).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid aerosol and dust generation. Ensure adequate ventilation. Wear nitrile gloves, safety goggles, and lab coat.
**Environmental Precautions:** Prevent material from entering drains or watercourses. Sweep up or absorb with inert material and place in sealed disposal container.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Operate inside certified laboratory chemical fume hood. Avoid inhalation and direct contact with skin and eyes.
**Storage:** Store at -20°C (Lyophilized). Keep container tightly sealed in a cool, dry, dark environment protected from moisture and direct light.

## SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

**Engineering Controls:** Certified laminar flow fume hood. **PPE:** Safety goggles (ANSI Z87.1), nitrile gloves, lab coat, respirator if required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid powder / sterile liquid reagent • **Odor:** Odorless • **CAS:** 50-56-6 • **Solubility:** Soluble in DMSO / Ethanol / Water

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage conditions. **Incompatible Materials:** Strong oxidizing agents, strong acids.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicity:** Preclinical laboratory reagent. No component is classified as a known or anticipated human carcinogen by IARC, NTP, or OSHA.

## SECTION 12: ECOLOGICAL & DISPOSAL INFORMATION (SECTIONS 12-13)

**Ecotoxicity:** Avoid release to the natural environment. **Disposal:** Dispose of in accordance with applicable federal, state, and local waste disposal regulations.

## SECTION 14: TRANSPORT & REGULATORY INFORMATION (SECTIONS 14-16)

**Transport (DOT / IATA / IMDG):** Non-hazardous research chemical. Not regulated as dangerous goods.
**Regulatory Notice:** Strictly for scientific in-vitro research and laboratory development. Umbrella Lab Solution assumes no liability for handling.