

# Safety Data Sheet

## Section 1: Chemical Identification

**Chemical Name:** XTT Sodium Salt  
**Alternative Name:** Tetrazolium Reagent, sodium;4-methoxy-5-[3-(2-methoxy-4-nitro-5-sulfonatophenyl)-5-(phenylcarbamoyl)tetrazol-3-ium-2-yl]-2-nitrobenzenesulfonate  
**Catalog Number:** X-200-1; X-200-100; X-200-500  
**Recommended use:** This product is not for use in humans. It is intended for research purposes only.  
**Distributed by:** Gold Biotechnology, Inc.  
 1328 Ashby Rd.  
 St. Louis, MO 63132  
**Phone:** (314) 890-8778  
**Fax:** (314) 890-0503  
**Email:** [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)  
**Emergency Phone:** (800)248-7609 (Monday-Friday, 9:00 a.m. – 5:00 p.m. CST)

## Section 2: Hazardous Information

### GHS Classification

This product is not subject to hazardous classification

### OSHA Hazards

No known hazards.

### Potential Health Effects

Eye: May cause eye irritation.  
 Skin: May be harmful if absorbed through skin. May cause irritation.  
 Ingestion: May be harmful if swallowed.  
 Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

### HMIS Classification

Health hazard: 0  
 Flammability: 0  
 Physical hazards: 0

### NFPA Rating

Health Hazard: 0  
 Fire: 0  
 Reactivity Hazard: 0

## Section 3: Composition/Information on Ingredients

**Identity:** sodium;4-methoxy-5-[3-(2-methoxy-4-nitro-5-sulfonatophenyl)-5-(phenylcarbamoyl)tetrazol-3-ium-2-yl]-2-nitrobenzenesulfonate  
**Synonyms:** XTT sodium salt

**CAS number:** 111072-31-2  
**Molecular Formula:**  $C_{22}H_{16}N_7O_{13}S_2Na$   
**Molecular Weight:** 673.52 g/mol

#### Section 4: First Aid Measures

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration.

**Skin:** Immediately wash skin with water.

**Eye:** Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

#### Section 5: Fire Fighting Measures

##### Conditions of flammability

Not flammable or combustible.

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

##### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium oxides.

#### Section 6: Accidental Release Measures

##### Personal precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

##### Environmental precautions

Do not let product enter drains.

##### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Section 7: Handling and Storage

##### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

##### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 4 °C. Keep in a dry place.

#### Section 8: Exposure Controls / Personal Protection

**Control parameters:** Contains no substances with occupational exposure limit values.

**Appropriate engineering controls:** Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

##### Personal Protective Equipment (PPE)

**Eye/Face Protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

**Respiratory Protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Other Protective Clothing or Equipment:** Maintain general industrial hygiene practice. Wash skin thoroughly and remove contaminated clothing after handling.

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Yellow powder
<b>Odour:</b>	Not available
<b>Odour Threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting Point:</b>	Not available
<b>Freezing Point:</b>	Not available
<b>Boiling Point/Range:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Flammability:</b>	Not available
<b>Lower Explosion Limit:</b>	Not available
<b>Upper Explosion Limit:</b>	Not available
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density:</b>	Not available
<b>Relative Density:</b>	Not available
<b>Solubility:</b>	Water: Soluble
<b>Partition Coefficient: <i>n</i>-octanol/water</b>	Not available
<b>Auto-Ignition Temperature:</b>	Not available

## Section 10: Stability and Reactivity Data

**Reactivity:** Not available.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Not available.

**Conditions to avoid:** Not available.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium oxides.  
Other decomposition products - no data available.

## Section 11: Toxicological Information

**Acute toxicity:**

Not available.

**Skin corrosion/irritation:**

Not available.

**Respiratory or skin sensitization:**

Not available.

**Germ cell mutagenicity:**

Not available.

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:**

Not available.

**STOT-single exposure:**

Not available.

**STOT-repeated exposure:**

Not available.

**Aspiration hazard:**

Not available.

**Likely routes of exposure:**

Respiratory organs, mouth, skin, and eyes.

**Symptoms of exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Section 12: Ecological Information

**Toxicity:**

Not available.

**Persistence and degradability:**

Not available.

**Bioaccumulative potential:**

Not available.

**Mobility in soil:**

Not available.

**Other adverse effects:**

Not available.

## Section 13: Disposal Considerations



Observe all federal, state, and local environmental regulations.

## Section 14: Transport Information

### US Department of Transportation (DOT)

This material is considered to be non-hazardous for transport.

### International Maritime Dangerous Goods (IMDG)

This material is considered to be non-hazardous for transport.

### International Air Transport Association (IATA)

This material is considered to be non-hazardous for transport.

## Section 15: Regulatory Information

### OSHA Hazards:

No known OSHA hazards

### SARA 302 Components:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards:

No SARA hazards

### Massachusetts Right To Know Components:

No Components Listed

### Pennsylvania Right To Know Components:

XTT sodium salt

CAS-No.

111072-31-2

### New Jersey Right To Know Components:

XTT sodium salt

CAS-No.

111072-31-2

### California Prop. 65 Components:

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

## Section 16: Other Information

While Gold Biotechnology, Inc. believes the information contained herein to be true and accurate, it has relied on information provided by others. Gold Biotechnology, INC. makes no warranties, express or implied, as to the accuracy or adequacy of the information contained herein or with respect to the results to be obtained from the use of the product. Gold Biotechnology, Inc. disclaims all liability with respect to the use of this product, including without limitation, liability for injury to the user or third-party persons.

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