

# MSDS

## Material Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU  
Classification according to Regulation (EC) No. 1272/2008 [CLP]

### 1. Product and Company Identification

<b>Product Name</b>	<b>TIARIZOL™ REAGENT</b>
<b>Product References</b>	TBR0100 (50 mL)   TBR0101 (2 x 50 mL)
<b>Brand</b>	TIARIS BIOSCIENCES Tiaris Biosciences SL. Parque Tecnológico Rabanales 21, Edificio Aldebarán, Calle Astrónoma Cecilia Payne s/n.
<b>Manufacturer/ Supplier</b>	14014. Córdoba, España Phone: +34 681 867 714   mailto: <a href="mailto:info@tiarisbiosciences.com">info@tiarisbiosciences.com</a> web: <a href="http://www.tiarisbiosciences.com">www.tiarisbiosciences.com</a>
<b>Emergency Telephone</b>	900-868538 (CHEMTREC Spain)   +34 931 768 545 (CHEMTREC International)

### 2. Hazards Identification

#### 2.1. Classification According to Regulation (EC) N°1272/2008 (CLP)

**H301** Toxic if swallowed (Category 3).

**H311** Acute toxicity, Dermal (Category 3).

**H314** Causes severe skin burns and eye damage (Category 1B).

**H318** Serious eye damage (Category 1).

**H335** May cause respiratory irritation by inhalation (Category 3).

**H373** Specific target organ toxicity (STOT)-single exposure (Category 3) or repeated exposure (Category 2).

**H341** Suspected of causing genetic defects (Category 2).

**H412** Harmful to aquatic life with long-lasting effects (Category 3).

#### 2.2. Label Elements and Precautionary Statements

**Pictogram**



**Signal Word**

**DANGER**

**P261** Avoid breathing dust/ fume/ gas/ mist/ vapors/ sprays.

**P264** Wash hands thoroughly after handling.

**P280** Wear protective gloves/ protective clothing/ eyes protection/ face protection.

**P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

# MSDS

## Material Safety Data Sheet

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**P501** Dispose of contents/ container to an approved waste disposal plant.

### 3. Composition / Information on Components

Chemical Name	CAS Number	EC Number	Weight (%)	Classification according to Regulation (EC) No.1272/2008 [CLP]
Thiocyanate Compounds	593-84-0	209-812-1	15-40	Acute Tox. 4 Skin Corr. 1C Eye Dam. 1 Aquatic Acute 3 Aquatic Chronic 3 H302+312+332, H314, H412
Phenol	108-95-2	203-632-7	30-60	Acute Tox. 3 Skin Corr. 1B
Non Hazardous Components	NA	NA	<20	

### 4. First-Aid Measures

<b>Inhalation</b>	Not expected to be an inhalation hazard under anticipated conditions of normal use of this product. Consult a physician if necessary.
<b>Skin Contact</b>	Wash off immediately with plenty of water and soap for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.
<b>Eye Contact</b>	Rinse with running water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion</b>	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. Fire Fighting Measures

<b>Extinguish Media</b>	
Suitable Extinguish Media	Class B extinguishers (oil, hydrocarbon liquids). Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
Unsuitable Extinguish Media	No information available.
<b>Special hazards arising from the substance or mixture</b>	Not known
<b>Advice for firefighters</b>	Standard procedures for chemical fires.

# MSDS

## Material Safety Data Sheet

### 6. Accidental Release Measures

<b>Personal Precautions, protective equipment and emergency procedures</b>	<p>Ensure adequate ventilation</p> <p>Avoid contact with skin, eyes or clothing</p> <p>Use personal protection equipment</p>
<b>Environmental Precautions</b>	No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.
<b>Methods and Material for Containment and Cleaning up</b>	Soak up with inert absorbent material.

### 7. Handling and Storage

<b>Precautions for Safe Handling</b>	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
<b>Conditions for Safe Storage, Including Any Incompatibilities</b>	<p>Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Protect from light.</p> <p><b>Incompatibilities</b></p> <p>Acetaldehyde: violent reaction.</p> <p>Aluminum and alloys: may corrode.</p> <p>Aluminum chloride + nitrobenzene: violent explosion.</p> <p>1, 3-butadiene, boron trifluoride, and diethyletherate: possible explosion</p> <p>Calcium hypochlorite: exothermic reaction with possible ignition.</p> <p>Formaldehyde: possible exothermic reaction.</p> <p>Lead and alloys: may corrode.</p> <p>Magnesium and alloys: may corrode</p>
<b>Specific End Use(s)</b>	<b>For research use only</b>

### 8. Exposure Control/ Personal Protection

Contains no substances with occupational exposure limit values.

**Personal Protective Equipment:**

**Respiratory Protection**

In case of insufficient ventilation wear appropriate respirators: type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection**

# MSDS

## Material Safety Data Sheet

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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands with soap and water.

### Eye Protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and Body Protection Impervious Clothing.

Wear appropriate clothing. When selecting clothing, consider the concentration and amount of substance to be handled.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Liquid
<b>Form:</b>	Liquid
<b>Colour:</b>	Red to maroon color with a or tar-like odor.
<b>Odour:</b>	Characteristic phenol odour
<b>pH (Value):</b>	No data
<b>Boiling Point:</b>	Not determined
<b>Melting / Freezing Point:</b>	No data
<b>Flash Point:</b>	110°C
<b>Flammable Limits:</b>	No data
<b>Auto Ignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data
<b>Explosive Properties:</b>	No data
<b>Oxidising Properties:</b>	No data
<b>Vapour Pressure (mm Hg):</b>	>0.35 mmHg at 25°C
<b>Density (g/ml):</b>	No data
<b>Solubility (Water):</b>	Soluble
<b>Solubility (Other):</b>	Soluble in methanol and glycerol; relatively soluble in aqueous alkali hydroxides, and dimethyl sulfoxide.
<b>Partition Coefficient (n-Octanol: Water):</b>	No data

# MSDS

## Material Safety Data Sheet

### 10. Stability and Reactivity

<b>Hazardous Reaction:</b>	Hazardous reaction has not been reported.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Hazardous Decomposition Product(s):</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid:</b>	No information available
<b>Incompatible Materials:</b>	No dangerous reaction known under conditions of normal use.

### 11. Toxicology Information

**Acute toxicity:** Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

**ID50 Oral (Rat/ Mouse):** Thiocyanate Compounds 600-800 mg/kg (rat) | Phenol 340 mg/ kg (rat).

**Skin corrosion/irritation:** Causes severe burns.

**ID50 Dermal (Rat/ Rabbit):** No data available.

**Serious eye damage/eye irritation:** Causes serious eye damage.

**Respiratory or skin sensitization:** not classified.

**ID50 Oral (Rat/ Mouse):** Thiocyanate compounds, no data | Phenol 316 mg/ m<sup>3</sup> (rat).

**Germ cell mutagenicity:** not classified

**Carcinogenicity:** not classified.

**Reproductive toxicity:** not classified.

**Specific target organ toxicity – single exposure (GHS):** not classified.

**Specific target organ toxicity – repeated exposure (GHS):** not classified.

**Aspiration hazard:** not classified.

### 12. Ecological Information

<b>Toxicity:</b>	Hazardous to the aquatic environment.
<b>Persistence and Degradability:</b>	Data not available
<b>Bioaccumulative Potential</b>	Data not available.
<b>Mobility in Soil:</b>	Data not available.
<b>Other Adverse Effect:</b>	Contains a suspected endocrine disruptor.

# MSDS

## Material Safety Data Sheet

### 13. Disposal Considerations

#### Waste treatment methods:

Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations. Do not empty into drains. Empty containers may retain some product residues. This material and its container must be disposed of in according to approved disposal technique.

### 14. Transport Information

#### IATA / ADR / DOT-US / IMDG:

UN number or ID number:	1760
UN Proper Shipping Name:	Corrosive Liquid
Transport Hazard Class(es):	8
Packing Group:	II
Environmental Hazards:	Not applicable
Special Precautions for User:	Not applicable

### 15. Regulatory Information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances of Very High Concern:	Not listed
Substance subject to authorization per REACH Annex XIV:	Not listed
Restricted substances under EC 1907/2006, Annex XVII:	Phenol: Use restricted (item 75)
Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals):	Not Listed
Regulation (EU)No2019/1021(Stockholm Convention–persistent organic pollutants):	Not Listed
EU - Substances Depleting the Ozone layer (1005/2009):	Not Listed

# MSDS

## Material Safety Data Sheet

### Other International Inventories

	Phenol	Thiocyanate compounds
EINECS (European Union)	listed	listed
ENCS (Japan)	listed	listed
PICCS (Phipppines)	listed	listed
AICS (Australia)	listed	listed
KECL (South Korea)	listed	-
DSL (Canada)	listed	listed
NDSL	-	-
ELINCS (European List of notified chemical substances)	-	-

### 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. *Tiaris Biosciences* shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.