

# TOLAZOLINE HYDROCHLORIDE

## MATERIAL SAFETY DATA SHEET

N/D = NO DATA

N/A = NOT APPLICABLE

### SECTION 1 - PRODUCT INFORMATION

MANUFACTURER AND SUPPLIER	Cochimbec Inc. 8561 chemin Dalton T.M.R., Quebec H4T 1V5
EMERGENCY TELEPHONE NUMBER	(514) 990-1935
PRODUCT	Tolazoline Hydrochloride
SYNONYMS	Arterodyl, Benzazoline Hydrochloride, Benzylimidazoline Hydrochloride
PRODUCT USE	Reagent

### SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS		CONCENTRATION	CAS No.	P.I.N. (U.N.)
Tolazoline Hydrochloride		98-100 %	59-97-2	N/A
LD <sub>50</sub> SPECIES: rat	CONCENTRATION: 1200 mg / Kg		ROUTE: oral	
LD <sub>50</sub> SPECIES: rat	CONCENTRATION: 85 mg / Kg		ROUTE: intravenous	
LC <sub>50</sub> SPECIES:	CONCENTRATION:		TIME:	
LC <sub>50</sub> SPECIES:	CONCENTRATION:		TIME:	

### SECTION 3 - PHYSICAL DATA

PHYSICAL STATE	Solid	DENSITY	N / D
ODOUR	Odorless	EVAPORATION RATE (nBuAc = 1)	N / A
APPEARANCE	Off white powder	BOILING POINT	N / D
ODOUR THRESHOLD	N / D	FREEZING POINT	174 - 176 °C
VAPOUR PRESSURE	N / D	pH @ 25 °C	N / D
VAPOUR DENSITY	N / D	COEFF. DE WATER/OIL DISTRIBUTION	N / D

### SECTION 4 - FIRE OR EXPLOSION HAZARD

CONDITIONS OF FLAMMABILITY	Presence of flame.
MEANS OF EXTINCTION	Water, dry chemical powder, foam or carbon dioxide.
FLASHPOINT AND METHOD	N / A
UPPER EXPLOSION LIMIT	N / A
LOWER EXPLOSION LIMIT	N / A
AUTO-IGNITION TEMPERATURE	N / A

HAZARDOUS COMBUSTIONS PRODUCTS	Carbon monoxide and Carbon dioxide and Nitrogen oxides and Hydrogen Chloride gas.
EXPLOSION DATA- SENSITIVITY TO STATIC DISCHARGE	Not sensitive to static discharge.
EXPLOSION DATA- SENSITIVITY TO MECHANICAL IMPACT	Not sensitive to mechanical impact.

SECTION 5 - REACTIVITY DATA	
CHEMICAL STABILITY	Stable
INCOMPATIBLE MATERIALS	Strong oxidizers.
CONDITION OF REACTIVITY	N / D
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide and Carbon dioxide and Nitrogen oxides and Hydrogen Chloride gas.

SECTION 6 - TOXICOLOGICAL PROPERTIES	
SKIN CONTACT	Causes irritation.
SKIN ABSORBTION	Potentially harmful quantities may be absorbed on extented or repeated contact with product. Causes irritation.
EYE CONTACT	Harmful Causes irritation.
INHALATION	Harmful. Causes irritation.
INGESTION	Harmful. Causes irritation.
EFFECTS OF ACCUTE EXPOSURE	Harmful. May cause irritation.
CHRONIC EXPOSURE EFFECTS	Symptoms of overdosage may produce a notable rise in goose bumps, peripheral vasodilating action, hyperventilation and shock. Other undesireable effects are notably tachycardia, cardiac arythmia, hypertension, pulmonary haemorrhaging, gastro-intestinal haemorrhaging, nausea, vomiting, diarrhoea, hepatitis, redness, red and white blood cell reduction, oedema, oliguria and hematuria.
EXPOSURE LIMITS	N / D
IRRITANCY OF PRODUCT	N / D
SENSITIZATION TO PRODUCT	N / D
CARCENOGENICITY	N / D
RERODUCTIVE TOXICITY	N / D
TERATOGENICITY	N / D
MATAGENICITY	N / D
TOXICOLOGICALLY SYNERGISTIC PRODUCT	N / D

SECTION 7 - PREVENTIVE MEASURES	
PERSONAL PROTECTIVE EQUIPMENT	Wear rubber gloves and other appropriate clothing, goggles, full face shield or face mask when handling this product. Use also with some respiratory equipment such as filter cartridges for dust.
SPECIFIC ENGINEERING CONTROLS TO BE USED	Eye rincing equipment and a shower should be available nearby and ready for use.
PROCEDURES TO FOLLOW FOR LEAKS AND SPILLS	Wear protective equipment described above. For spills, sweep up and place in a DOT approved containers. Ventilate closed spaces. Keep away from sewers, rainwater drains and

	other water sources. Warn qualified government authorities if the spill requires a report or if it is harmful to the environment.
WASTE DISPOSAL	Dispose of contaminated product and cleaning material according to government laws. Consult your federal, provincial and municipal agencies to determine elimination procedure. Do not dispose as ordinary waste nor throw in sewers.
HANDLING PROCEDURES AND EQUIPMENT	Keep containers closed when not in use. Use with appropriate protective equipment and wash thoroughly after handling. Avoid all contact with the product. Rinse out empty containers to avoid accidental contact with material.
STORAGE REQUIREMENTS	Store away from incompatibles. Store in a cool ventilated area.
SPECIAL SHIPPING INFORMATION	No special shipping procedure.

## SECTION 8 - FIRST AID MEASURES

EYE CONTACT	Rinse with running water for 30 minutes while lifting upper and lower eyelids from time to time. Obtain medical attention.
SKIN CONTACT	Rinse with running water for 30 minutes. Remove all contaminated clothing and wash them before re-using. Obtain medical attention immediately.
INHALATION	Remove victim to fresh air. If victim is not breathing, begin artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.
INGESTION	Do not give anything by mouth to an unconscious person or a convulsive victim. In case of spontaneous vomit, tilt victims head forward and have him bend forward. Have victim rinse mouth with water and then have him drink some water. Obtain medical attention immediately.

## SECTION 9 - PREPARATION OF DATA

PREPARED BY:	Cochimbec Inc.
TELEPHONE NUMBER:	(514) 990-1935
DATE PREPARED:	February 14, 2015

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