

Material Safety Data Sheet

# THIOSEMICARBAZIDE 0.5% aq

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Thiosemicarbazide 0.5% aq  
**Catalog Numbers:** SO-867CLX

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883  
**Emergency Number:** 800-424-9300  
**For CHEMTREC assistance, call:** 800-424-9300

## Section 2 - Hazards Identification

### GHS CLASSIFICATIONS

#### HEALTH HAZARDS

**H300 Acute Oral Toxicity:** 2  
**H310 Acute Dermal Toxicity:** 2  
**H316 Skin Corrosion/ Skin Irritation:** 3  
**H320 Eye Damage/ Irritation:** 2B

#### PHYSICAL HAZARDS

**Explosives:** Not Classified  
**Flammability:** Not Classified  
**Oxidizer:** Not Classified  
**Corrosive to Metals:** Not Classified  
**Self Heating:** Not Classified  
**Self Reactive:** Not Classified  
**Water Reactive:** Not Classified

#### ENVIRONMENTAL HAZARDS

**Acute aquatic environmental hazards:** Not Classified  
**Chronic aquatic environmental hazards:** Not Classified

#### Pictograms or Hazard symbols and Hazard statement



**Danger! Fatal if swallowed**



**Danger! Fatal in contact with skin**

**Warning! Causes mild skin irritation**

**Warning! Causes eye irritation**

**H300**

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P310** If swallowed, immediately call a physician.

**P321** See section 4 for additional first aid measures

**P330** Rinse mouth.

**P405** Store locked up.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**H310**

**P262** Do not get in eyes, on skin, or on clothing.

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P350** IF ON SKIN: Gently wash with plenty of soap and water

**P322** See section 4 for additional first aid measures

**P361** Remove/ Take off immediately all contaminated clothing

**P363** Wash contaminated clothing before reuse.

**H316**

**P332 + P313** If skin irritation occurs, get medical advice/attention.

**P362** Take off contaminated clothing and wash before reuse.

**H320**

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

**P337 + P313** If eye irritation persists, get medical advice/attention

**DANGER! POISON!** Fatal if swallowed! Fatal in contact with skin! **Warning!** Causes mild skin irritation. Causes eye irritation. Use with adequate ventilation. Avoid all routes of contact.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
79-19-96	<b>Thiosemicarbazide</b> POISON! DANGER! CAUSES IRRITATION. MAY BE FATAL IF SWALLOWED. TARGET ORGAN(S): Eyes, skin.	0.5w/v
7732-18-5	<b>Water</b>	Balance

Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical advice.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### Section 5 - Fire Fighting Measures

**NFPA** HEALTH 2 FLAMMABILITY 0 REACTIVITY 0

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

#### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

#### Section 7 - Handling and Storage

Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature.

#### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Mechanical exhaust

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** Clear  
**pH:** 4.60–6.50  
**Cas# 7732-18-5 water**  
**Vapor Pressure:** 2.3 kPa @ 20deg. C  
**Vapor Density:** 0.62 (Air=1)  
**Evaporation Rate:** N/A  
**Viscosity:** N/A  
**Boiling Point:** 100 deg. C

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Hazardous Decomposition Products:** Oxides of nitrogen, oxides of sulfur.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with other material.** No information found.

**Conditions to Avoid:** Heat.

#### Section 11 - Toxicological Information

**RTECS#:**

CAS#79-19-96 RTECS# VT4200000

**LD50/LC50:**

CAS#79-19-96: Acute Oral Toxicity (LD50) 9.16mg/kg [Rat] 13mg/kg [Rabbit] 10mg/kg [Dog]

**Carcinogenicity:**

CAS#79-19-96: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Route of exposure:**

Multiple routes: May cause irritation, poison. May be fatal by ingestion, or skin absorption. May cause eye irritation.

**Conditions aggravated by exposure:**

The toxicological properties have not been thoroughly investigated.

#### Section 12 - Ecological Information

**No data available.**

#### Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility.

## Section 14 – Transport Information

### DOT

Non-Regulated

## Section 15 - Regulatory Information

US Classification and label test

US Statements: Caution: Poison Toxic if inhaled, swallowed or absorbed through the skin.

United States Regulatory Information

SARA Listed: No

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

#### **Risk Phrases:**

R27/28 Very toxic in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

#### **Safety Phrases:**

S7/9 Keep container tightly closed and in a well-ventilated place

S15 Keep away from heat

S24/25 Avoid contact with skin and eyes

S27/28 After contact with skin, take off immediately all contaminated clothing, wash immediately with plenty of soap and water and seek medical advice

S37/39 Wear suitable gloves and eye/face protection

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

DSL: no

NDSL: no

## Section 16 - Additional Information

**MSDS Creation Date:** 12/8/04

**Revision #1** 9/12/13 MH

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