

Safety Data Sheet

THIOSEMICARBAZIDE, 0.5% AQUEOUS

Section 1 - Chemical Product and Company Identification

SDS Name: Thiosemicarbazide, 0.5% Aqueous
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

H300-Acute Toxicity, Oral: 2
H312-Acute Toxicity, Dermal: 4
H319-Serious eye damage/eye irritation: 2A

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

Hazard Statement(s):

H300-Fatal if swallowed
H312-Harmful in contact with skin
H319-Causes serious eye irritation

Precautionary Statements:

P264-Wash thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310-If swallowed: Immediately call a Poison Center or doctor/physician.
P302+P352-If on skin: Wash with plenty of soap and water.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312-Call a Poison Center or doctor/physician if you feel unwell.
P330-Rinse mouth.
P337+P313-If eye irritation persists: Get medical advice/attention.
P363-Wash contaminated clothing before reuse.
P405-Store locked up.
P501-Dispose of contents in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
79-19-6	Thiosemicarbazide	0.5 w/v

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. Seek immediate medical advice.

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 swallowed, seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. Seek immediate medical advice.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

Flash Point: Not Available

Autoignition Temperature: Not Available

Explosion Limits, Lower: Not Available

Upper: Not Available

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective gear. Ensure adequate ventilation.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal. Provide ventilation. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep away from incompatible materials. Protect from heat.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Thiosemicarbazide	Not available	Not available	Not available

OSHA Vacated PELs: Not available.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Odor: odorless

Vapor Pressure: not available

Odor threshold: not available

Vapor Density: not available

pH: 4.60-6.50
Relative density: not available
Melting point/freezing point: not available
Solubility: soluble in water
Boiling Point: not available
Flash point: not available
Evaporation Rate: not available
Flammability (solid, gas): not available
Partition coefficient: n-octanol/water: not available
Auto-ignition temperature: not available
Decomposition temperature: not available
Viscosity: not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, excess heat.
Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides, Sulfur oxides.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: VT4200000
CAS#: 79-19-6
LD50, Oral = 9.16 mg/kg (rat)
LD50, Dermal = 2200 mg/kg (rabbit)
IC50, Inhalation = 0.33 mg/l (rat) 4h
Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology: Not Available
Teratogenicity: Not Available
Reproductive Effects: Not Available
Neurotoxicity: Not Available
Mutagenicity: Not Available

The toxicological properties of this material have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity: Harmful to aquatic life. Do not release to environment. Do not release to drains.

LC50 (freshwater fish) = 20.8 mg/L 96h (Pimephales promelas – fathead minnow)
Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 - Transport Information

DOT: non-regulated

Section 15 - Regulatory Information

Canada Regulatory Information

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

Section 16 - Additional Information

SDS Creation Date: 12-8-04

Revision #1: MH 9-12-13

Revision #2: 3-4-21

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