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MATERIAL SAFETY DATA SHEET (MSDS)**THIOSEMICARBAZIDE (FOR SYNTHESIS)****1. Product Identification**

Synonyms: N-Aminoithiourea; Thiocarbamylhydrazine; Hydrazinecarbothioamide
CAS No.: 79-19-6

Product Coad: T0204500100

Molecular Weight: 91.14
Chemical Formula: NH₂CSNHNH₂

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Hydrazinecarbothioamide	79-19-6	90 - 100%	Yes

3. Hazards Identification**Emergency Overview**

POISON! DANGER! CAUSES IRRITATION. MAY BE FATAL IF SWALLOWED. TARGET ORGAN(S):Eyes, skin.

Health Rating: 4 - Extreme (Poison)

Flammability Rating: 0 - None

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe (Life)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

Potential Health Effects

Inhalation: None identified.

Ingestion: Headache, nausea, vomiting, dizziness, gastrointestinal irritation.

Skin Contact: Irritation, allergic reaction may develop.

Eye Contact: Irritation.

Chronic Exposure: Blood, and liver damage.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: In case of contact, flush skin with water.

Eye Contact: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire: Not expected to be a fire hazard.

Explosion: No information found.

Fire Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Information: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

6. Accidental Release Measures

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

7. Handling and Storage

Keep container tightly closed. Store in secure poison area. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee

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exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White crystalline solid.

Odor: Odorless.

Solubility: Moderate (1-10%)

Specific Gravity: No information found.

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: No information found.

Melting Point: 183C (361F)

Vapor Density (Air=1): Not applicable.

Vapor Pressure (mm Hg): Not applicable.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

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

Hazardous Polymerization: Will not occur.

Incompatibilities: No information found.

Conditions to Avoid: Heat.

11. Toxicological Information

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Hydrazinecarbothioamide (79-19-6)	No	No	None

12. Ecological Information

Environmental Fate: No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (THIOSEMICARBAZIDE)

Hazard Class: 6.1

UN/NA: UN2811

Packing Group: II

Information reported for product/size: 100G

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International (Water, I.M.O.)

Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (THIOSEMICARBAZIDE)

Hazard Class: 6.1

UN/NA: UN2811

Packing Group: II

Information reported for product/size: 100G

International (Air, I.C.A.O.)

Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. (THIOSEMICARBAZIDE)

Hazard Class: 6.1

UN/NA: UN2811

Packing Group: II

Information reported for product/size: 100G

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Hydrazinecarbothioamide (79-19-6)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
Hydrazinecarbothioamide (79-19-6)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
Hydrazinecarbothioamide (79-19-6)	100	100*	Yes	No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
Hydrazinecarbothioamide (79-19-6)	100	P116	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

Australian Hazchem Code: 2XE

Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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NFPA Ratings: Health: **4** Flammability: **1** Reactivity: **0**

Label Hazard Warning:

POISON! DANGER! CAUSES IRRITATION. MAY BE FATAL IF SWALLOWED. TARGET ORGAN(S): Eyes, skin.

Label Precautions: Do not get in eyes, on skin, on clothing. Keep in tightly closed container. Wash thoroughly after handling.

Label First Aid: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. **Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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