



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
210	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Thioacetamide	Catalog Number(s).	T1035, T1042	
		CAS#	62-55-5	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	AC8925000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Thicacetamide	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	Ethanethioamide; Acetothioamide; Thiacetamide; Thioacetimidic ac		IN CASE OF EMERGENCY	
Chemical Name	Acetamide, thio-		(24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310) 5	16-8000	
Chemical Formula	C2-H5-N-S			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Compos	ition and Information	n on ingredient	S	T		
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Thioacetamide		62-55-5				100
Toxicological Data on Ingredients	Thioacetamide: ORAL (LD50):	Acute: 301 mg/	kg [Rat].			

## Section 3. Hazards Identification

**Potential Acute Health Effects** Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence.) by **Potential Chronic Health Effects** 

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available.

The substance may be toxic to liver.

Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and E.	xplosion Data
Flammability of the Product	May be combustible at high temperature.
<b>Auto-Ignition Temperature</b>	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available.  Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	As with most organic solids, fire is possible at elevated temperatures
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures	
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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and Storage		
ingest. Do not breathe dust. Wear suitable prote respiratory equipment. If ingested, seek medical a	ctive cloth dvice imm	ing. In case of insufficient ventilation, wear suitable nediately and show the container or the label. Avoid
Keep container tightly closed. Keep container in a Refrigerate.	cool, wel	I-ventilated area. Do not store above 8°C (46.4°F).
Controls/Personal Protection		
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.		
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		
Not available.		
nd Chemical Properties		
Solid. (Crystals solid.)	Odor	Slight odor of mercaptans. Sulfurous.
75.13 g/mole	Taste	Not available.
Not available.	Color	White to yellowish.
Not available.		
113°C (235.4°F) - 114 C.		
	Keep away from heat. Keep away from sources of ingest. Do not breathe dust. Wear suitable protect respiratory equipment. If ingested, seek medical at contact with skin and eyes. Keep away from incomplete container tightly closed. Keep container in a Refrigerate.  Controls/Personal Protection  Use process enclosures, local exhaust ventilation, recommended exposure limits. If user operations gairborne contaminants below the exposure limit.  Splash goggles. Lab coat. Dust respirator. Be Gloves.  Splash goggles. Full suit. Dust respirator. Boots. to avoid inhalation of the product. Suggested probe BEFORE handling this product.  Not available.  Mot available.  Not available.	Keep away from heat. Keep away from sources of ignition. ingest. Do not breathe dust. Wear suitable protective cloth respiratory equipment. If ingested, seek medical advice imm contact with skin and eyes. Keep away from incompatibles so Keep container tightly closed. Keep container in a cool, well Refrigerate.  **Controls/Personal Protection**  Use process enclosures, local exhaust ventilation, or other recommended exposure limits. If user operations generate duairborne contaminants below the exposure limit.  Splash goggles. Lab coat. Dust respirator. Be sure to use Gloves.  Splash goggles. Full suit. Dust respirator. Boots. Gloves. To avoid inhalation of the product. Suggested protective containers and the product. Suggested protective containers are product.  Not available.  **Taste**  Color**  Not available.

**Critical Temperature** 

**Specific Gravity** 

**Vapor Pressure** 

Vapor Density

**Odor Threshold** 

Water/Oil Dist. Coeff.

**Dispersion Properties** 

**Ionicity (in Water)** 

Volatility

**Solubility** 

Not available.

Not applicable.

Not available.

Not available.

Not available.

Not available.

See solubility in water.

Soluble in cold water. Miscible in petroleum ether. Sparingly soluble in ether. Solubility in ethanol: 26.4 g/100 g.

The product is more soluble in water; log(oil/water) = -0.3

Solubility in water: 16300 mg/l @ 25 deg. C.

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Section 10. Stability	Section 10. Stability and Reactivity Data		
Stability	The product is stable.		
<b>Instability Temperature</b>	Not available.		
<b>Conditions of Instability</b>	Excess heat, incompatible materials		
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.		
Corrosivity	Non-corrosive in presence of glass.		
Special Remarks on Reactivity	Not available.		
Special Remarks on Corrosivity	Not available.		
Polymerization	Will not occur.		

Section 11. Toxicolog	gical Information
<b>Routes of Entry</b>	Absorbed through skin. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 301 mg/kg [Rat].
<b>Chronic Effects on Humans</b>	<b>CARCINOGENIC EFFECTS</b> : Classified 2B (Possible for human.) by IARC. Classified as anticipated carcinogen by NTP.
	MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. May cause damage to the following organs: liver.
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic). May cause cancer. May cause adverse reproductive effects and birth defects (teratogenic).
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. It may be absorbed through the skin and cause symtoms similar to that of ingestion Eyes: Causes eye irritation. Inhalation: May cause respiratory tract nose, throat, lungs) irritation causing coughing. Ingestion: Harmful if swallowed. It may cause diarrhea and painful or difficult urination. It may affect the liver and cause liver damage. Contact with stomach acids can liberate toxic hydrogen sulfide gas. Hydrogen Sulfide can cause diarrhea, nausea, excessive salivation, and can affect the central nervous system producing headache, weaknkess dizziness, excitement, staggering gait. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the liver (hepatitis, cirrhosis, hepatocellular necrosis), urinary system, blood (changes in serum composition), metabolism (loss appetite, weight loss), endocrine system (thymus, spleen). Skin: Prolonged or repeated skin contact can result in moderate to heavy skin irritation.

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
<b>Toxicity of the Products of Biodegradation</b>	The products of degradation are less toxic than the product itself.	
<b>.</b>		

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Thioacetamide		Page Number: 5
Special Remarks on the Products of Biodegradation	Not available.	

## Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

# Section 14. Transport Information DOT Classification Not a DOT controlled material (United States). Identification Not applicable. Special Provisions for Transport DOT (Pictograms)

## Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:  Thioacetamide
	California prop. 65 (no significant risk level): Thioacetamide: 0.0001 mg/day (value) California prop. 65: This product contains the following ingredients for which the State of California has found to
	cause cancer which would require a warning under the statute: Thioacetamide Connecticut hazardous material survey.: Thioacetamide
	Illinois toxic substances disclosure to employee act: Thioacetamide Illinois chemical safety act: Thioacetamide
	New York release reporting list: Thioacetamide

New York release reporting list: Thioacetamide Pennsylvania RTK: Thioacetamide Minnesota: Thioacetamide

Massachusetts spill list: Thioacetamide New Jersey: Thioacetamide New Jersey spill list: Thioacetamide Louisiana spill reporting: Thioacetamide TSCA 8(b) inventory: Thioacetamide

Massachusetts RTK: Thioacetamide

SARA 313 toxic chemical notification and release reporting: Thioacetamide CERCLA: Hazardous substances.: Thioacetamide: 10 lbs. (4.536 kg)

California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Thioacetamide		
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.		
Other Classifications	WHMIS (Canada)	The classification of this product has not been validated yet by the Service du repertoire toxicologique. However, the WHMIS can be expected to be CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).	
	DSCL (EEC)	R22- Harmful if swallowed. R36/38- Irritating to eyes and skin. R45- May cause cancer. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53- Avoid exposure - obtain special instructions before use. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

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## Thioacetamide Page Number: 6 Health Hazard (2) **HMIS (U.S.A.) National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard 1 Health Reactivity Reactivity 0 Specific hazard Personal Protection $(\mathbf{E})$ WHMIS (Canada) (Pictograms) DSCL (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms) **Protective Equipment** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

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Section 16. Other Information				
MSDS Code	T3390			
References	Not available.			
Other Special Considerations	Not available.			
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/14/2006.		
CALL (310) 516-80	00			

### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.