1. PRODUCT DESCRIPTION
Product Name: Thioacetamide
Product Code(s): 89-5850
Size: 100 g
Chemical Name: Thioacetamide
CAS Number: 62-55-5
Formula: CH3CSNH2
Synonyms: Acetothioamide; Ethanethioamide
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm ET M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS
Principle Hazardous Components: Thioacetamide (cas#62-55-5) 100%
TLV and PEL units: None established

3. HAZARD IDENTIFICATION
Emergency Overview: Harmful if inhaled, swallowed or absorbed through skin.
Possible cancer hazard. May cause cancer based on animal data. Must be kept refrigerated.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES
Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES
Flash Point (Method Used): N/A
NFPA Rating:
  Health: 2
  Fire: 1
  Reactivity: 0
Extinguisher Media:
  Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: N/A
Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Emits highly toxic and explosive fumes of H2S gas.

6. SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS
Precautions to be Taken in Handling or Storing: Keep container tightly closed. Explosion-proof refrigerator recommended for storage. Other Precautions: Do not breathe dust. Do not get in eyes, on skin, or on clothing.

8. SPECIAL PROTECTION INFORMATION
Respiratory Protection (Specify Type):
None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:
- Local Exhaust: Yes
- Mechanical (General): Yes
- Special: No
- Other: No

Protective Gloves:
- Rubber, neoprene, PVC, or equivalent.

Eye Protection:
- Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:
- Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA
Molecular Weight: 75.14
Melting Point: 111-114
Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density (Air=1): N/A
Specific Gravity (H2O=1): N/A
Percent Volatile by Volume: N/A
Evaporation Rate (H2O=1): N/A
Solubility in Water: Soluble
Appearance and Odor: White crystals, slight mercaptan odor.

10. REACTIVITY DATA
Stability: Stable
Conditions to Avoid: Heat, contact with ignition sources.
Incompatibility (Materials to Avoid): Oxidizers
Hazardous Decomposition Products: COx, NOx, H2S, SOx
Hazardous Polymerization: Will not occur

11. TOXICITY DATA
Toxicity Data: orl-rat LD50: 301 mg/kg
- ipr-mus LD50: 300 mg/kg
Effects of Overexposure:
Acute: See section 3
Chronic: Tests on laboratory animals indicate material may cause
tumors and produce adverse mutagenic and reproductive effects.
Conditions Aggravated by Overexposure: Harmful if inhaled, swallowed, or
absorbed through the skin. May cause chronic liver damage. Prolonged contact
results in moderate to heavy skin irritation.
Target Organs: Skin, liver, thyroid
Primary Route(s) of Entry: Inhalation, ingestion or skin contact

12. ECOLOGICAL DATA
EPA Waste Numbers: U218

13. DISPOSAL INFORMATION
Waste Disposal Methods: Dispose in accordance with all applicable Federal,
State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION
n/a

15. REGULATORY INFORMATION
EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

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<tr>
<th>SARA Sec. 313</th>
<th>Product Components</th>
<th>Name</th>
<th>Chemical</th>
<th>Sec. 103</th>
<th>Sec.</th>
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<td>Thioacetamide</td>
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<td>No</td>
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16. ADDITIONAL INFORMATION
The information provided in this Material Safety Data Sheet represents a
compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH........American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA.......Comprehensive Environmental Response, Compensation, and Liability Act
DOT.........U.S. Department of Transportation
IARC.........International Agency of Research on Cancer
mppcf.......million particles per cubic foot
N/A.........Not Available
NTP.........National Toxicology Program
MATERIAL SAFETY DATA SHEET

THIOACETAMIDE
CAROLINA BIOLOGICAL

OSHA........Occupational Safety and Health Administration
PEL..........Permissible Exposure Limit
ppm.........parts per million
RCRA........Resource Conservation and Recovery Act
SARA.......Superfund Amendments and Reauthorization Act
TLV........Threshold Limit Value
TSCA........Toxic Substances Control Act