

THiocarbamide

THC

CAUTIONARY RESPONSE INFORMATION

Common Synonyms Isothiourea Pseudothiourea Sulourea Thiourea 2-Thiourea Urea, thio-	Solid, crystal or powder White, off-white Sinks and mixes with water.
KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Wear self-contained positive pressure breathing apparatus and full protective clothing. Notify local health and pollution control agencies. Protect water intakes.	
Fire	POISONOUS GASES ARE PRODUCED WHEN HEATED TO DECOMPOSITION. Wear self-contained positive pressure breathing apparatus and full protective clothing. Extinguish small fires: dry chemical, CO ₂ , water spray or foam; large fires: water spray, fog or foam. Move containers from fire area if you can do it without risk.
Exposure	CALL FOR MEDICAL AID. DUST Poisonous if inhaled. May irritate skin. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. SOLID Poisonous if swallowed. Irritating to skin. IF IN EYES OR ON SKIN: flush with running water for at least 15 min.; hold eyelids open if necessary. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site. IF SWALLOWED and victim is CONSCIOUS, induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.
Water Pollution	Harmful to aquatic life in very low concentrations. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS
Stop discharge Dilute and disperse Do not burn	2.1 CG Compatibility Group: Not listed. 2.2 Formula: NH-CSNH ₂ 2.3 IMO/UN Designation: 6.1/2877 2.4 DOT ID No.: Not listed. 2.5 CAS Registry No.: 62-56-6 2.6 NAERG Guide No.: Not listed 2.7 Standard Industrial Trade Classification: 51463
3. HEALTH HAZARDS	
3.1 Personal Protective Equipment: Wear self-contained positive pressure breathing apparatus and full protective clothing.	
3.2 Symptoms Following Exposure: Poisonous inhaled or swallowed. Irritating to skin; may cause allergic skin eruptions.	
3.3 Treatment of Exposure: INHALATION: move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. SKIN OR EYES: flush with running water for at least 15 min.; hold eyelids open if necessary. Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site. INGESTION: if conscious, induce vomiting.	
3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 3; LD ₅₀ = 125 mg/kg (rat); varies with different stains of rats; less toxic to some strains. 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Can cause cancer; mutagenic, teratogenic and tumorigenic effects. 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquid or Solid Characteristics: Currently not available 3.12 Odor Threshold: Currently not available 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA A EGL: Not listed	

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Currently not available	7.1 Grades of Purity: 99%
4.2 Flammable Limits in Air: Currently not available	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Small fires: dry chemical, CO ₂ , water spray or foam; large fires: water spray, fog or foam.	7.3 Inert Atmosphere: Not listed
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Not listed
4.5 Special Hazards of Combustion Products: May contain highly toxic fumes of NO _x and SO _x .	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: When heated to decomposition, it produces very toxic NO _x and SO _x fumes.	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Currently not available	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Currently not available	8. HAZARD CLASSIFICATIONS
4.9 Burning Rate: Currently not available	8.1 49 CFR Category: Not listed
4.10 Adiabatic Flame Temperature: Currently not available	8.2 49 CFR Class: Not pertinent
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent.	8.3 49 CFR Package Group: Not listed.
4.12 Flame Temperature: Currently not available	8.4 Marine Pollutant: No
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.	8.5 NFPA Hazard Classification:
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	Category Classification Health Hazard (Blue)..... 1 Flammability (Red)..... 0 Instability (Yellow)..... 0
5. CHEMICAL REACTIVITY	8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed 8.9 EPA FWCNA List: Not listed
5.1 Reactivity with Water: No reaction	9. PHYSICAL & CHEMICAL PROPERTIES
5.2 Reactivity with Common Materials: Incompatible with metals.	9.1 Physical State at 15° C and 1 atm: Solid
5.3 Stability During Transport: Stable	9.2 Molecular Weight: 76.12
5.4 Neutralizing Agents for Acids and Caustics: Neutralize with six normal hydrochloric acid.	9.3 Boiling Point at 1 atm: Decomposes
5.5 Polymerization: Not pertinent	9.4 Freezing Point: 347-351°F. = 175-177°C. = 448-450°K.
5.6 Inhibitor of Polymerization: Not pertinent	9.5 Critical Temperature: Not pertinent
6. WATER POLLUTION	9.6 Critical Pressure: Not pertinent
6.1 Aquatic Toxicity: 1.8 mg/l/time unknown/daphnia magna/L ₅₀ /fresh water >100 mg/l/time unknown/fathead minnow/L ₅₀ /fresh water	9.7 Specific Gravity: 1.405 at 20°C.
6.2 Waterfowl Toxicity: Currently not available	9.8 Liquid Surface Tension: Not pertinent
6.3 Biological Oxygen Demand (BOD): 1.3%, 5 days	9.9 Liquid Water Interfacial Tension: Not pertinent
6.4 Food Chain Concentration Potential: Currently not available	9.10 Vapor (Gas) Specific Gravity: 2.6 (est.)
6.5 GESAMP Hazard Profile: Not listed	9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
NOTES	

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
68	87.700		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
55	9.200		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E