



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	The health risks of this compound have not been fully determined. Exposure may cause irritation of the skin, eyes, and respiratory system.	

Section I. (Chemical Product and Comp	any Identification	
Chemical Name	Phenylthiohydantoin-threonine		
Catalog Number	P0621	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Not available.		Portland OR 1-800-423-8616
Chemical Formula	$C_{11}H_{12}N_2O_2S$		
CAS Number	5789-21-9	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II. Composition and Information on Ingredients					
Chemical Na	ime	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Phenylthiohydantoin-threonine		5789-21-9	Min. 98.0 (HPLC, N)	Not available.	Not available.

Section III. Hazards Identification No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if Acute Health Effects inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. **CARCINOGENIC EFFECTS**: Not available. Chronic Health Effects MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	First Aid Measures
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye oitment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively.
Skin Contact	After contact with skin, wash immediately with plently of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing.
Inhalation	If the victim is not breathing, perform artificial respiration. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention. Treat symptomatically and supportively.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Losen tight clothing such as a collar, tie, belt, or waistband. If the victim is not breathing, administer artificial respiration. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Flash Points	Not available.	Flammable Limits	Not available.
Combustion Products	These products are toxic carbon oxides (CO,	CO ₂), nitrogen oxides (NO, NO	O_2), sulfur oxides (SO _x).
Fire Hazards	No specific information is available regarding the flammability of this compound in the presence of various materials.		
Explosion Hazards	Risks of explosion of the product in presence Risks of explosion of the product in presence No additional information is available regardin	of static discharge: Not availa	
	•	er spray or foam.	

P0621 Phenylthiohydantoin-threonine Page 2 Section VI. Accidental Release Measures In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Spill Cleanup shovel to put the material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contain Instructions surfaces with copious amounts of water. Consult federal, state, and/or local authorities for assistance on disposal Section VII. Handling and Storage Handling and Storage Keep away from heat and sources of ignition. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. DO NOT breathe dust. Always store away from incompatible compounds such as oxidizing agents. Information Section VIII. Exposure Controls/Personal Protection **Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Personal Protection **Exposure Limits** Not available. Section IX. Physical and Chemical Properties White fluffy crystals. Solubility Physical state @ 20°C Not available Not available Specific Gravity 236.29 Partition Coefficient Not available Molecular Weight Not available. Not available. **Boiling Point** Vapor Pressure Melting Point Not available Vapor Density Not available Not available. Volatility Not available. Refractive Index Critical Temperature Not available Odor Not available Not available. Not available Viscosity Taste Section X. Stability and Reactivity Data This material is stable if stored under proper conditions. (See Section VII for instructions) Stability Conditions of Instability Avoid excessive heat and light. Incompatibilities Reactive with oxidizing agents. Section XI. Toxicological Information Not available RTECS Number Routes of Exposure Eye contact. Ingestion. Inhalation. Not available. Toxicity Data CARCINOGENIC EFFECTS: Not available. Chronic Toxic Effects MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. **DEVELOPMENTAL TOXICITY**: Not available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions. No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Skin and eye contact may result in irritation. May be harmful if Acute Toxic Effects inhaled or ingested. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this Section XII. Ecological Information

Not available.

Not available.

Ecotoxicity

Environmental Fate

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Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a comubustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance.
Section XIV.	Transport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not applicable.
Proper Shipping Name	Not applicable.
Packing Group (PG)	Not applicable.
DOT Pictograms	

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Section XV.	Other Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet.
WHMIS Classification (Canada)	Not available.
EINECS Number (EEC)	Not available.
EEC Risk Statements	Not available.
Japanese Regulatory Data	Not available.

Section XVI. Other Information

Version 1.0 Validated on 5/15/1998. Printed 1/13/2012.

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Disposal Considerations

Section XIII.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to depardation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of nunsed product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

Printed 1/13/2012