

[SDS] **Cholinesterase**


1268 N. Lakeview Ave. Anaheim, CA 92807 Phone: (714) 463-1111 Fax: (714) 463-1169 www.tecodiag.com

**Section 1 – Identification**

<b>Product Name</b>	<b>Cholinesterase</b>	<b>Emergency Telephone No.</b>
<b>Catalog Numbers</b>	C511-60, C511-A	CHEMTREC (800) 424-9300
<b>Product Type</b>	Clinical Chemistry Reagent	International CHEMTREC (703) 527-3887
<b>Company Name</b>	Teco Diagnostics	<b>Company Telephone No.</b>
<b>Street Address</b>	1268 N. Lakeview Avenue	(800) 222-9880 or (714) 463-1111
<b>City, State, Zip Code, Country</b>	Anaheim, CA 92807 USA	Monday - Friday 8:00-4:30 PT
		Fax No. (714) 463-1169
<b>Recommended Use:</b> For <i>in vitro</i> diagnostic use only. For professional use only.		
<b>Restrictions on Use:</b> Not for <i>in vivo</i> use.		

**Section 2 – Hazard(s) Identification**

Component	Classification of the substance or mixture
Propionylthiocholine iodide	This material is classified as hazardous according to 29 CFR 1910.1200 (OSHA HCS): Skin irritation (category 2), H315 Serious eye damage (category 1), H318 Specific target organ toxicity, single exposure (category 3), Respiratory system), H335

Component	Label elements	
Propionylthiocholine iodide	Pictogram Hazard Symbol	
	Signal Word	Danger
	Hazard statements	H315 Causes skin irritation H318 Causes serious eye damage. H335 May cause respiratory irritation.
	Precautionary statements	P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor. P 332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.

<b>Hazards not otherwise classified (HNOC)</b>	None
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**Section 3 – Composition/Information on Ingredients**

Component	Type	Chemical Concentration	CAS#
Cholinesterase Reagent	Mixture	4mM Propionylthiocholine iodide 0.4mM DTNB	1866-73-5 69-78-3

**Section 4 – First Aid Measures**

<b>If inhaled:</b>	Move exposed person to fresh air immediately. If not breathing, give artificial respiration. Consult a physician.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. If victim is conscious and alert, wash out their mouth with water. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Remove contaminated clothing. Get medical attention if irritation occurs. Wash clothing before reuse.
<b>In case of eye contact:</b>	Rinse eyes thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>General advice:</b>	Show this safety data sheet to the physician.

**Section 5- Fire-fighting Measures**

<b>Extinguishing Media</b>	Suitable: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable: None known
<b>Special Hazards</b>	Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NOx), sulphur oxides, hydrogen iodides
<b>Special protective equipment and precautions for fire-fighters</b>	Wear self-contained breathing apparatus and appropriate protective clothing for firefighting.

**Section 6 – Accidental Release Measures**

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear personal protective equipment (PPE) as indicated in section 8. Exercise appropriate precautions to avoid contact with skin or eyes. Avoid breathing dust.
<b>Methods and materials for containment and cleaning up</b>	Sweep up material without creating dust. Place into a suitable waste container and close tightly. For disposal, see section 13.

**Section 7 – Handling and Storage**

<b>Handling</b>	Wear appropriate personal protective equipment (PPE) as indicated in section 8. Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.
<b>Storage</b>	Store at 2-8°C in the original container and protect from sunlight. Keep container tightly closed when not in use.

**Section 8 – Exposure Controls / Personal Protection**

<b>Components with workplace control parameters</b>	The product contains no components with occupational exposure limit (OEL) values.
<b>Engineering Controls</b>	No special ventilation is required. Good general ventilation is sufficient.

**Personal Protective Equipment**

<b>Respiratory Protection</b>	Respiratory protective equipment is not required where adequately ventilated.
<b>Hand Protection</b>	Wear chemical-resistant, impervious gloves.
<b>Eye Protection</b>	Safety glasses with side shields recommended.
<b>Protective Clothing</b>	Wear a lab coat.
<b>Other protective equipment</b>	Ensure the eyewash station and/or safety shower/wash is located near the work area.

**General Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. After handling the product, remove gloves using proper glove removal technique (without touching outer surface of glove), and dispose gloves according to applicable laws and good laboratory practices.  
Wash hands thoroughly after glove removal, before and after breaks (eating, smoking, using the lavatory) and at end of workday.

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**Section 9 – Physical and Chemical Properties**

Appearance	White to off-white powder
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	Not flammable
Upper/lower flammability or explosion limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

**Section 10 – Stability and Reactivity**

Reactivity	Reacts with human serum, plasma, or whole blood
Chemical stability	Stable under recommended storage conditions as indicated in section 7.
Possibility of hazardous reactions	No information available
Conditions to avoid	Avoid high temperature, high humidity conditions
Incompatible materials	Strong oxidizing agents, strong bases
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NOx), sulphur oxides, hydrogen iodides

**Section 11- Toxicological Information**

Routes of Exposure	Skin contact, eye contact
Effects of acute exposure	
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Ingestion	May be harmful if ingested.
Inhalation	May cause respiratory irritation.
Effects of chronic exposure	No information available

**Toxicity:**

Component	Acute Toxicity	Chronic Toxicity	Other Information
DTNB	LD50 Intraperitoneal – mouse 2080 mg/kg	No information available	RTECS: DG9650000

**Carcinogenicity**

IARC	No component present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Section 12 – Ecological Information**

Ecotoxicity	No information available	Mobility in soil	No information available
Persistence and degradability	No information available	Other adverse effects	No information available
Bio-accumulative potential	No information available	Water hazard class	No information available



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**Section 13 – Disposal Considerations**

**Waste residues and methods of disposal**

This product has to be disposed in accordance with applicable regional, national and local laws and regulations. Surplus and non-recyclable components should be taken to a licensed waste disposal contractor for disposal.

**Contaminated Packaging**

Waste packaging and empty containers may retain some product residues, therefore they should be taken to an approved waste handling site or given to a licensed waste disposal company.

**Section 14 – Transport Information**

UN Number	None. Not regulated.
UN Proper shipping name	None. Not regulated.
Transport hazard class	Not classified as hazardous. Not regulated.
Packing group	Not applicable
Environmental hazard	No information available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
DOT (USA)	Not dangerous goods. Non-hazardous for transport.
IMDG	Not dangerous goods. Non-hazardous for maritime transport.
IATA	Not dangerous goods. Non-hazardous for air transport.
Special precautions	None

**Section 15 – Regulatory Information**

<b>United States</b>		
HCS Classification	Not regulated	
<b>U.S Federal Regulations</b>		
TSCA 8(a) CDR Exempt/Partial exemption: Not determined		
United States inventory TSCA 8(b): Not determined		
SARA 302: No components are subject to the reporting requirements of SARA Title III, section 302		
SARA 304 Extremely Hazardous Substances Reportable Quantity: The product does not contain any components with a section 304 EHS RQ.		
SARA 311/312 Hazards Identification: Propionylthiocholine: Acute health hazard		
Clean Water Act (CWA) 307: This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.		
Clean Water Act (CWA) 311: This product does not contain any hazardous substances listed under the U.S. Clean Water Act section 311.		
Clean Air Act (CAA) 112 accidental release prevention: No products were found		
<b>U.S. State Regulations</b>	<b>Component</b>	<b>CAS No.</b>
Massachusetts Right to Know:	No components are subject to the Massachusetts Right to Know Act.	N/A
Pennsylvania Right to Know:	Propionylthiocholine 3,3'-Dithiobis[6-nitrobenzoic] acid	1866-73-5 69-78-3
New Jersey Right to Know:	Propionylthiocholine 3,3'-Dithiobis[6-nitrobenzoic] acid	1866-73-5 69-78-3
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
<b>Canada WHMIS: Exempt</b>		

**Section 16 – Other Information**

This product is labeled in accordance with CFR21 (Food and Drugs), Section 809.10.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate.

We make no warranties, express or implied, and assume no liability in connection with the use of this information.

It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary safety precautions.

N/A = Not Applicable or Not Available

Date of SDS Preparation: 05/06/2014