

[SDS]

**Amylase (Kinetic)**

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

**Section 1 – Identification**

<b>Product Name</b>	Amylase (Kinetic)	<b>Emergency Telephone No.</b>
<b>Catalog Numbers</b>	A533-60	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 Monday - Friday 8:00-4:30 PT
<b>City, State, Zip Code, Country</b>	Anaheim, CA 92807 USA	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**

<b>Classification:</b> This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency Overview:</b> When the recommended instructions for use are followed, the product is not expected to produce significant adverse health effects. There are no known significant effects or critical hazards; however, appropriate safety precautions should still be taken. Avoid contact with eyes and skin.
<b>Acute health effects:</b> No known significant effects or critical hazards have been identified.
<b>Chronic health effects:</b> No known significant effects or critical hazards have been identified.
For additional information on toxicity, please refer to section 11.

**Section 3 – Composition/Information on Ingredients**

Component	Type	Chemical Concentration or % (Based on dried weight at time of impregnation)	CAS#
Amylase Reagent:	Mixture	0.9 mM Ethylidene-4-NP-G7 25,000 IU/L Glucosidase 10,000 IU/L Glucoamylase 50 mM Sodium Chloride	96597-16-9 9001-42-7 9032-08-0 7647-14-5

**Section 4 – First Aid Measures**

<b>General Advice</b>	Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.
<b>Ingestion</b>	If victim is conscious and alert, wash out their mouth with water, and then give 2 to 4 cups of water. Never give anything by mouth to an unconscious person. Seek medical attention.
<b>Inhalation</b>	Move exposed person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
<b>Skin Contact</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

**Section 5- Fire-fighting Measures**

<b>Extinguishing Media</b>	Suitable: Use extinguishing media suitable for surrounding fire, such as water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable: Unknown
<b>Specific Hazards</b>	Carbon Oxides, Nitrogen Oxides (NO <sub>x</sub> )
<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>	Avoid dust formation. Avoid breathing dust. Avoid breathing vapors, mist or gas. Avoid physical contact with material and avoid generating or inhaling dust. Ensure adequate ventilation. Wear PPE as indicated in Section 8. Wash hand thoroughly after handling.
<b>Methods and materials for containment and cleaning up</b>	Keep in suitable, closed containers for disposal. Use neutralizing agents. Do not sweep powder. Use HEPA-filtered vacuum, if available, otherwise wet mop to clean up a powder spill. Decontaminate the spill site following standard procedures. Dispose of materials in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

**Section 7 – Handling and Storage**

<b>Handling</b>	Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate
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Revision	B
Prepared by	Apeksha Shanbhag
Approved by	Jenifer Ohta
Issue date	01/29/2019

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ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

### Storage

Store at 2 - 8°C in the original container and protect from sunlight. Keep container closed when not in use.

### Section 8 – Exposure Controls / Personal Protection

**Components with workplace control parameters** The product contains no components with occupational exposure limit values.

**Engineering Controls** No special ventilation requirements. Good general ventilation is sufficient.

#### Personal Protective Equipment

**Respiratory Protection** Respiratory protective equipment is not required where adequately ventilated.

**Hand Protection** Wear chemical-resistant, impervious gloves

**Eye Protection** Safety glasses with side shields recommended.

**Protective Clothing** Wear a lab coat.

**Other protective equipment** 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 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. Also wash hands before eating, smoking, using the lavatory, and at end of the work period.

### Section 9 – Physical and Chemical Properties

**Appearance** White to off-white powder

**Odor** N/A

**Odor threshold** N/A

**pH** N/A

**Melting point / freezing point** N/A

**Initial boiling point and boiling range** N/A

**Flash point** N/A

**Evaporation rate** N/A

**Flammability** Not flammable

**Upper/lower flammability or explosion limits** N/A

**Vapor pressure** N/A

**Vapor density** N/A

**Relative density** N/A

**Solubility** Soluble in water

**Partition coefficient: n-octanol/water** N/A

**Auto-ignition Temperature** N/A

**Decomposition Temperature** N/A

**Viscosity** N/A

### Section 10 – Stability and Reactivity

**Reactivity** Reacts with test specimen.

**Chemical stability** Stable under recommended storage conditions as indicated in section 7.

**Possibility of hazardous reactions** No information available

**Conditions to avoid** Avoid moisture. Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** Hydrogen chloride gas, Sodium oxides, Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

### Section 11- Toxicological Information

**Route of Entry/Exposure** Skin contact, eye contact

#### Effects of acute exposure

**Skin contact** May cause irritation.

**Eye contact** May cause irritation.

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**Ingestion** May be harmful if ingested.  
**Inhalation** May cause irritation to mucous membranes and upper respiratory tract.

**Effects of chronic exposure** No information available

**Toxicity:**

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Amylase Reagent:	Sodium Chloride	LD50 Oral – Rat: 3,550 mg/kg LD50 Inhalation – Rat: 1h > 42g/m <sup>3</sup> LD50 Dermal – Rabbit 10 g/kg	No information available	No information available

**Carcinogenicity**

IARC	No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential 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 carcinogen or potential 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**

Toxicity	Sodium Chloride: LC50 - Lepomis macrochirus (Bluegill) - 5,840 mg/l - 96 h, NOEC - Daphnia (water flea) - 1,500 mg/l - 7 d, LC50 - Daphnia magna (Water flea) - 1,661 mg/l - 48 h
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Water Hazards	No data available
Other adverse effects	No data available

**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 should be recycled; however, since empty containers may retain some product residues, they should be taken to an approved waste handling site or given to a licensed waste disposal contractor for recycling or disposal, if recycling is not possible.

**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 chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	



# Teco Diagnostics

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**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:** Not regulated

**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

U.S. State Regulations	Component	CAS No.
Massachusetts <b>Right to Know:</b>	N/A	N/A
Pennsylvania <b>Right to Know:</b>	Glucosidase Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (Ethylidene-4-NP-G7) Sodium Chloride	9001-42-7 96597-16-9 7647-14-5
New Jersey <b>Right to Know:</b>	Glucosidase Ethyliden-4-nitrophenyl-a-D-maltoheptaosid (Ethylidene-4-NP-G7) Sodium Chloride	9001-42-7 96597-16-9 7647-14-5
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.	
Canada WHMIS: Exempt		

### 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

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