



Teco Diagnostics

Document	QL801-041
Revision	B
Prepared by	Denise Antonio
Approved by	Jenifer Ohta
Issue date	01/29/2019

[SDS]

Lipase Reagent Set (Turbidimetric Method)

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

Section 1 – Product and Company Information

Product Name Catalog Number Product Type	Lipase Reagent Set (Turbidimetric Method) L537-100 Clinical Chemistry Reagent	Emergency Telephone No. CHEMTREC (800) 424-9300 International CHEMTREC (703) 527-3887
Company Name Street Address City, State, Zip Code, Country	Teco Diagnostics 1268 N. Lakeview Avenue Anaheim, CA 92807 USA	Company Telephone No. (800) 222-9880 or (714) 463-1111 Monday - Friday 8:00-4:30 PST Fax No. (714) 463-1169
Recommended Use: For in vitro diagnostic use only. For professional use only.		
Restrictions on Use: Not for in vivo use.		

Section 2 – Hazards Identification

Classification

Component	Classification
Lipase Substrate Olive Oil	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin Corrosion/Irritation (Category 2)
Lipase Buffer Tris Base	This material is not classified as hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Deoxycholic Acid	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Acute Toxicity, Oral (Category 4)

Hazardous Component

Component	GHS Label elements, including precautionary statements	
Olive Oil (Lipase Substrate)	Pictogram Hazard Symbol	
	Signal Word	Warning
	Hazard Statements	H315 Causes Skin Irritation
	Precautionary Statements	P264 Wash skin thoroughly after handling. P280 Wear protective gloves P321 Specific treatment (see supplemental first aid instructions on this label). P362 Take off contaminated clothing and wash before reuse. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/ attention.
Hazards not Otherwise classified (HNOC)		None

Component	GHS Label elements, including precautionary statements	
Deoxycholic Acid (Lipase Buffer)	Pictogram Hazard Symbol	
	Signal Word	Warning
	Hazard Statements	H302 Harmful if swallowed
	Precautionary Statements	P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product P501 Dispose of contents/container to an approved waste P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Hazards not Otherwise classified (HNOC)		Unknown acute toxicity



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Section 3 – Composition/Information on Ingredients

Component	Type	Chemical Concentration	CAS#
Lipase Substrate	Mixture	0.8 % (w/v) Olive Oil	8001-25-0
Lipase Buffer	Mixture	69 mM Tris Buffer	77-86-1
		10 mM Deoxycholic Acid	302-95-4

Section 4 – First Aid Measures

General Advice	Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and Show this safety data sheet.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If not breathing, give artificial respiration. Consult a physician
Skin Contact	Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash Clothing before reuse. Consult a physician immediately
Eye Contact	Immediately wash skin with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, consult a physician.

Section 5- Fire and Explosive Hazard Data

Extinguishing Media	Suitable: CO ₂ , dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray. Unsuitable: No information Available
Specific Hazards	Do not allow run-off from fire fighting to enter drains or water courses. Substances arising from burning of chemicals include: HCL, Nitrogen Oxides, and Carbon Oxides
Special Protective equipment and advice for firefighters	Wear self contained breathing apparatus for firefighting if necessary.

Section 6 – Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for Cleaning Up and Disposal	Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal

Section 7 – Handling and Storage

Handling	Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.



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Section 8 – Exposure Controls / Personal Protection

Components with workplace control parameters

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Quebec	Mexico OEL	Ontario TWAEV
Olive Oil	TWA: 10 mg/m ³	N/A	N/A	N/A	N/A	N/A

Engineering Controls

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain and showers. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eye Protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands
Body Protection	Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
Respiratory Protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Other Protective Equipment	Ensure the eyewash station and/or safety shower is located near the work area

Section 9 - Physical Data

Appearance	Lipase Substrate: clear liquid Lipase Buffer: white powder
Odor	No information Available
Odor Threshold	No Information Available
pH	Buffer: 9.0 (37°C)
Melting point/ Freezing point	No Information Available
Initial Boiling point and boiling range	No Information Available
Flash Point	No Information Available
Evaporative Rate	No Information Available
Flammability	No information Available
Upper/Lower flammability or explosion limits	No Information Available
Vapor pressure	No information Available
Vapor Density	No Information Available
Relative Density	No Information Available
Solubility	Buffer: Soluble in water



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Partition coefficient: n-octanol/water	No information Available
Auto-ignition temperature	No Information Available
Decomposition Temperature	No Information Available
Viscosity	No Information Available

Section 10 – Stability and Reactivity

Reactivity	Reacts with test specimen
Chemical Stability	Stable under recommended conditions
Possibility of hazardous reactions	No Data Available
Conditions to Avoid	Avoid moisture Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Extremely High Temperatures
Incompatible materials	Strong oxidizing agents Strong Bases
Hazardous decomposition products	Hazardous decomposition products are formed under fire conditions. Such products can include the following: Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x).

Section 11 – Toxicological information

Route of entry/Exposure	Effects
Acute Exposure Skin contact Eye Contact Ingestion Inhalation	May Cause irritation May cause irritation No data available May cause irritation to mucous membranes and upper respiratory tract
Chronic Exposure	No information available

Toxicity

Component	Chemical	Acute Toxicity	Chronic Toxicity	Other Information
Lipase Substrate	Olive Oil	No Data Available	No Data Available	No Data Available
Lipase Buffer	Tris	No Data Available	No Data Available	No Data Available
	Deoxycholic Acid	LD50 Oral: 1,370 mg/kg (Rat) LD50 Oral: 1,050 mg/kg (Mouse) LD50 Intraperitoneal: 123 mg/kg (Rat) LD50 Intraperitoneal: 36 mg/kg (Mouse) LD50 Intravenous: 150 mg/kg (Rat) LD50 Intravenous: 107 mg/kg (Mouse) LD50 Subcutaneous: 2,430 mg/kg (Rat) LD50 Subcutaneous: 815 mg/kg (Mouse)	No Data Available	No Data Available

Carcinogenicity: This table indicates whether each agency has listed any component as a carcinogen

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH



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NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12- Ecological Information

Toxicity	Tris EC50 - Daphnia (water flea) - > 980 mg/l - 48 h EC50 - Algae - 397 mg/l - 72 h NOEC - Algae - 100 mg/l - 72 h Deoxycholic acid LC50 - Oryzias latipes - 115 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

Product	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
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	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard class	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not Regulated
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Regulated
DOT	Not Regulated
IMDG	Not Regulated
IATA	Not Regulated
Special Precautions	Not Regulated

Section 15 – Regulatory Information

HCS Classification	Does Not Apply
SARA 302 Components	Does Not Apply
SARA 313 Components	Does Not Apply
SARA 311/312 Hazards	Olive Oil – CAS No. 8001-25-0 Tris – CAS No. 77-86-1 Deoxycholic Acid – CAS No. 302-95-4
SARA 304 Components	Does Not Apply
Clean Water Act 307	Sulfuric Acid
Clean Water Act 311	Sulfuric Acid
Clean Air Act 112	Does Not Apply
U.S. State- Illinois Right to Know	Does Not Apply
U.S. State- Massachusetts Right to Know	Does Not Apply
U.S. State- New Jersey Right to Know	Olive Oil – CAS No. 8001-25-0
U.S. State- Pennsylvania Right to Know	Olive Oil – CAS No. 8001-25-0
U.S. State- Rhode Island Right to Know	Does Not Apply
U.S. State- California Prop. 65	Does Not Apply



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Section 16- Other Information

This Product is labeled in accordance with CFR 21 (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: 01/29/2019