

Material Safety Data Sheet

Hazardous according to criteria of Worksafe Australia
Hazardous according to Occupational Safety and Health Administration's (OSHA)
Communication Standard , 29 CFR 1910.1200

Lipase Color Assay

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

THERMO TRACE LTD
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189 - 199 Browns Rd
NOBLE PARK VIC 3174
AUSTRALIA
Tel: +61 3 9790 4100
Fax: +61 3 9790 4155
E-mail: trace@thermotrace.com.au

THERMO DMA
331 South 104th Street
LOUISVILLE, CO 80027
U.S.A
Tel: (303) 581 6428
Fax: (303) 581 6429
E-mail: inquiries@thermodma.com

Product Name: Lipase Color Assay

Catalog Numbers: 1660-030, 1660-150

Use: This reagent is intended for the in vitro quantitative determination of pancreatic lipase activity in human serum

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

Poison Schedule: None allocated

Contact Point

Australia

Quality Assurance Manager:

Tel: +61 3 9790 4100

Mon – Fri 9:00am to 5:00pm

U.S.A

Chemtel

24 Hour Emergency Assistance

1-800-255-3924

2. COMPOSITION / INFORMATION ON INGREDIENTS

Lipase Color Solvent (R1) and Lipase Color Activator (R2):

SUBSTANCE NAME	Proportion	CAS Number
SODIUM AZIDE	0.1 %	26628-22-8

Lipase Color Reagent (R1A) and Lipase Calibrator:

This product contains human source material. Treat as potentially infectious. Each serum donor unit used in the preparation of this product has been tested by an FDA approved method and found non-reactive for the presence of HbsAg, HCV and antibody to HIV 1/2. Because no known test method can offer complete assurance that infectious agents are absent, all human based products should be handled in accordance with good laboratory practices using appropriate precautions. Potential Biohazard.

All other ingredients in this product are not hazardous according to the criteria of Worksafe Australia and OSHA Communication Standard 29 CFR 1910.1200

3. HAZARD IDENTIFICATION

Hazardous according to the criteria of Worksafe Australia and OSHA Communication Standard 29 CFR 1910.1200

Hazard Category: Harmful

ACUTE HEALTH EFFECTS

Swallowed:

Harmful if swallowed. Over exposure to sodium azide will include headache, nausea, blurred vision, dizziness, vomiting and low blood pressure. May cause irritation to mouth, throat and stomach.

Eye:

May cause irritation to the eyes, with effects including: tearing and blurred vision. These effects are anticipated to be of a short acting nature and no long term injury is anticipated, ***if the product is removed promptly.***

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3. HAZARD IDENTIFICATION (cont)

Skin:

May cause irritation to the skin, with effects including; Redness and itchiness.

Inhaled:

Mists from the product may cause irritation to the nose, throat and respiratory system.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis. Prolonged or repeated exposure may lead to irreversible damage to health.

Skin:

4. FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. Give 1 to 2 glasses of water to drink. Seek immediate medical assistance.

Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

Hazardous Decomposition Products: None.

Fire Fighting Procedures: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

Flammability

This material is not a combustible or flammable solid.

6. ACCIDENTAL RELEASE MEASURES

Lipase Color Solvent (R1) and Lipase Color Activator (R2):

Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. Bund area using sand or soil - to prevent run off into drains and waterways. Place absorbent (soil, sand, vermiculite or other inert material) onto spill. Collect and seal in properly labeled containers for disposal.

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6. ACCIDENTAL RELEASE MEASURES (cont)

Lipase Color Reagent (R1A) and Lipase Calibrator:

This product is a powder, under appropriate conditions dusts may be generated. Wear suitable protective equipment in these circumstances. Ventilate area. If possible wet area down to prevent high dust levels. If spill occurs, use dustless methods, such as a HEPA vacuum and filter. Otherwise, use a non-sparking shovel and place into a suitably labeled container for later disposal. **Do not dry sweep.** Certain individuals may have an allergic reaction to over exposure, and individuals showing signs of allergic reactions should be removed to a clean well ventilated area as soon as symptoms present.

7. HANDLING AND STORAGE

Lipase Color Solvent (R1), Lipase Color Activator (R2) and Lipase Color Reagent (R1A)

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents and heavy metals. Keep containers closed, when not using the product. When stored at 2-8°C the reagent will be stable until the expiry date on the bottle. Store in original packages as approved by manufacturer..

Lipase Calibrator:

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents and heavy metals. Keep containers closed, when not using the product. When stored at -20°C the reagent will be stable until the expiry date on the bottle. Store in original packages as approved by manufacturer..

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

The National Occupational Health & Safety Commission (NOHSC) has not assigned any exposure standards for this product or for any of the components:

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate .

Personal Protection Equipment

GLOVES: Rubber or latex gloves. For people with sensitive skins the use of neoprene or nitrile is recommended.

EYES: Chemical goggles or faceshield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of dusts. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a half-face organic vapour respirator is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Lipase Color Reagent (R1A)

Appearance: Off-white to pale yellow powder
Boiling Point: Not available.
Freezing Point: Not available.
Vapour Pressure: Not available.
Specific Gravity: Not available.
Flash Point: Not applicable.
Flammability Limits: Not applicable.
Solubility in Water: Soluble.

Lipase Calibrator:

Appearance: White lyophilized powder
Boiling Point: Not available.
Freezing Point: Not available.
Vapour Pressure: Not available.
Specific Gravity: Not available.
Flash Point: Not applicable.
Flammability Limits: Not applicable.
Solubility in Water: Soluble.

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9. PHYSICAL AND CHEMICAL PROPERTIES (cont)

Lipase Color Solvent (R1)

Appearance:	Clear colourless liquid
Boiling Point:	Not available.
Freezing Point:	Not available.
Vapour Pressure:	Not available.
Specific Gravity:	Not available.
Flash Point:	Not applicable.
Flammability Limits:	Not applicable.
Solubility in Water:	Soluble.

Lipase Color Activator (R2)

Appearance:	Clear yellowish liquid
Boiling Point:	Not available.
Freezing Point:	Not available.
Vapour Pressure:	Not available.
Specific Gravity:	Not available.
Flash Point:	Not applicable.
Flammability Limits:	Not applicable.
Solubility in Water:	Soluble.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon and oxides of sulfur.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

Strong oxidizing agents, strong acids and bases .

CONDITIONS TO AVOID:

Excessive heat may damage the material. Avoid contact with heavy metals or acids and prolonged exposure to direct sunlight.

11. TOXICOLOGICAL INFORMATION

Lipase Color Solvent (R1) and Lipase Color Activator (R2)

There is no toxicological information available for those products, however, for the ingredient:

Sodium azide:

Oral LD50(rat): 27 mg/kg

Dermal LD50(rabbit): 20 mg/kg

Oral LDLo(human): 143 mg/kg

Systemic effects: CNS disorders, cardiovascular failure, tachycardia, drop in blood pressure, coughing, dyspnoea, spasms, headache, dizziness, nausea, vomiting, collapse, unconsciousness and ultimately death.

A several gram dose ingested of sodium azide produced collapse and death within 40 minutes in an adult. Pathologic findings were limited to swelling of the brain, lungs and mild fatty degeneration of liver.

Lipase Color Reagent (R1A) and Lipase Calibrator:

May be harmful by inhalation, ingestions or skin absorption. May cause skin, eye or respiratory irritation.

Human source material present. Although the product was found negative to Hepatitis -B surface antigen and antibodies to HIV 1&2 and HCV, it should be handled at Biosafety Level 2 as recommended for any potentially infectious serum specimen.

The toxicological properties have not been thoroughly investigated.

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12. ECOLOGICAL INFORMATION

Lipase Color Solvent (R1) and Lipase Color Activator (R2)

Environmental Degradation: Dissipation of azides in soil is not by microbial action but is strictly a chemical process, which is accelerated by increased acidity and elevated temperatures. This reaction appears to occur rapidly in soils by oxidation or by reaction of hydrazoic acid with soil organic acids to form azides of these acids which then decompose by a Curtius Rearrangement. Sodium azide appears to be stable in water in the absense of light, however, it appears to be susceptible to photo-decomposition by UV radiation. Photolysis of sodium azide may result in metal nitrides initially, with the eventual formation of the free metal and nitrogen gas.

Lipase Color Reagent (R1A) and Lipase Calibrator:

Aquatic toxicity: Data not available.

Persistency: Data not available.

Biological oxygen demand (BOD): Data not available.

Food chain concentration potential: Data not available.

Avoid contaminating waterways, drains or sewers.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Normally suitable for disposal by approved waste disposal agent

14. TRANSPORT INFORMATION

UN Number: None allocated

Proper Shipping Name: NONE ALLOCATED

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 6th Edition. Not classified as a Dangerous Good according to the UN, DOT(US), ICAO(IATA) or IMO(IMDG).

15. REGULATORY INFORMATION

Poison Schedule: None allocated

RISK PHRASES

R22 Harmful if swallowed.

R32 Contact with acids liberates very toxic gas.

SAFETY PHRASES

S22 Do not breathe dust.

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately and show this container or label.

16. OTHER INFORMATION

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, which are available on request.

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