

Safety Data Sheet

KIT - TMB Peroxidase Substrate System (English and Swedish)

Doc. No.: SDS-10306 Rev. Number: 4 Rev. Date: Jun 7, 2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Description

KPL TMB Peroxidase Substrate System

Product Code

5120-0053 (50-76-11)

5120-0050 (50-76-03)

5120-0047 (50-76-00)

REACH Registration number: Not relevant

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Product category: Reagent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

LGC Clinical Diagnostics, Inc

37 Birch Street Milford, MA 01757

Phone #: (508) 244-6400 US Toll Free: (800) 676-1881

Fax #: (508) 634-3394 www.seracare.com

Email: CDx-CustomerService@LGCGroup.com

1.4 Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

Account number: CCN12505

AUSTRALIA - POISONS INFORMATION CENTER Telephone: 13 11 26

CANADIAN TRANSPORT EMERGENCY CENTER Telephone: (1) 613 996 6666



KPL N₁, N₁, - Dimethylformamide SDS

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1. PRODUCT AND COMPANY IDENTIFICATION

 Product Description:
 Product Code

 TMB Solution, 5 L
 5120-0052, 50-76-09

 TMB Solution, 19.5 L
 5120-0051, 50-76-08

 TMB Solution, 450 mL
 5120-0049, 50-76-02

 TMB Solution, 100 mL
 5120-0048, 50-76-01

 TMB 2-C Elisa Substrate, 60 mL
 5120-0019, 37-00-78

Hazardous Reagent Hazardous Reagent Product code

TMB Peroxidase Substrate System Catalog No. listed above

Recommended Use: Reference Reagent

Contact SeraCare Life Sciences Phone #: (508) 244-6400

Manufacturer: 910 Clopper Road US Toll Free: (800) 676-1881 Gaithersburg, MD 20878

Fax #: (508) 634-3394

Web: www.seracare.com

Email: customerservice@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER Telephone: 13 11 26 - Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER Telephone: (1) 613 996 6666 - Hours: 24 hours/day,

7 days/week

UK – THE NATIONAL FOCUS Telephone: (44) 029 2041 6388 - Hours: 09:00-17:00 GMT

USA - NATIONAL RESPONSE CENTER Telephone: (1) 800 424 8802 - Hours: 24 hours/day,

7 days/week

CHEMTREC: CHEMTREC Customer Number: - CCN12505*

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 CCN12505 or

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2. HAZARD IDENTIFICATION

Hazard Type Health Hazard

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

GHS Classification Flammable liquids (Category 3), H226

Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312

Eye irritation (Category 2A), H319

Reproductive toxicity (Category 1B), H360

Hazard Statements: H332: Harmful if inhaled

H319: Causes serious eye irritation H226 Flammable liquid and vapour.

H312 + H332 Harmful in contact with skin or if inhaled

H360 May damage fertility or the unborn child.

Precautionary Statements: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/ protective clothing / eye protection/ face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

P303 + P361 + P35 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified or not covered by GHS: Rapidly absorbed through

skin.

Symbols and Indications of

Danger:

GHS08 GHS07 GHS02

Danger







Principle Route of Exposure: The substance can be absorbed into the body by inhalation and through the skin.

Acute Effects: Eye May cause redness and irritation

Acute Effects: Skin: May be absorbed

Acute Effects: Inhalation: Abdominal pain; Diarrhea; Nausea. Vomiting; Facial flushing. .

Inhalation Risk: A harmful contamination of the air will be reached rather slowly on evaporation of this

substance at 20°C.

Short-Term Exposure The substance is irritating to the eyes. The substance may cause effects on the liver,

resulting in jaundice.

Long-Term Exposure The substance may have effects on the liver, resulting in impaired functions. Animal

tests show that this substance possibly causes toxic effects upon human reproduction.

Ingestion: Do not eat, drink, smoke when using this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CHEMICAL	% Weight	CAS #:
TMB Peroxidase Substrate	N1, N1, - Dimethylformamide (DMF)C3H7NO	26%	68-12-2
Classification	Repr. 1B,		
	Acute Tox. 4,		
	Eye Irrit. 2A,		
	EC-No: 200-679-5		
	Index-No.:616-001-00-X		
	Flam. Liq. 3;		

H226, H312 + H332, H319, H360

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4. FIRST AID MEASURES

Wash contaminated clothing before reuse. Seek medical attention if necessary. **General Advice:**

Ingestion First Aid: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician

Inhalation Exposure: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician

Skin Exposure: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer

for medical attention.

Eye Exposure: First rinse with plenty of water for several minutes (remove contact lenses if easily

possible), then take to a doctor.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unusual Fire and Explosive

Hazards:

Not considered flammable but may burn at high temperatures, product is not explosive

Flash Point: Closed cup: 58°C

Auto ignition Temperature: Not Available Flammability Statement: Not Available

Specific hazards arising from

the chemical:

Fire hazard: not considered flammable but may burn at high temperature

Explosion: Product is not explosive

Reactivity: Hazardous reactions will not occur under normal condition

Protective equipment and precautions for firefighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid

> breathing vapors, mist or gas. Ensure adequate ventilation, Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection

see section 8.

Environmental Precautions: Prevent entry to sewers and public water

Method of Containment and

Clean-up

Clean up spills with dikes or absorbents to prevent migration and entry into sewers or Streams.

Clean up of spills immediately and dispose of waste safely. Transfer spilled material to

suitable container for disposal. Contact competent authorities after a spill.

Other Information: Not Available

7. HANDLING AND STORAGE

Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking,

or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe

mist/vapor/spray. Avoid contact with skin, eyes and clothing.

Storage: Keep container closed when not in use. Store in a dry, cool place. Keep away from

incompatible materials including strong acids, strong bases, strong oxidizers.

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8. EXPOSURE CONTROL

Respiratory Protection: Ventilation, local exhaust; if irritation is experienced, approved respiratory protection

should be worn

Eye Protection: Safety goggles

Skin Protection: Protective gloves, protective clothing.

Ingestion: Rinse mouth.

Do not eat, drink, or smoke during handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to slightly bluish colored solution.

Physical State: Liquid

Odor: Not Available
Odor Threshold: Not Available
pH: Not Available

Boiling Point: 100°C

Evaporation Rate:Not AvailableVapor Density:Not AvailableVapor Pressure:Not AvailableRelative Density:Not AvailableAuto-Ignition Temperature:Not Available

Water Solubility: Completely miscible

Flash Point:

Viscosity:

Not Available

Oxidizing Properties:

Not Available

Explosive Properties:

Not Available

Additional Paramenters See Datasheet/Product Insert for other Product Information.

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal conditions.

Conditions to avoid: Extremely high or low temperatures, a, incomparable materials and direct sunlight.

Incompatibility Materials to

Avoid:

Strong acids, strong bases and strong oxidizing agents

Hazardous Decomposition

Products:

None known

Hazardous Polymerization: Not Available Possibility of hazardous Not Available

reactions:

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11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral: Not classified
LD50 Dermal: Not classified
LC50 Inhalation: Not classified

Chronic Toxicity

Carcinogenicity: Not classified Irritation: Not classified

An eye and skin irritant

Corrosivity: Not classified

Sensitization: Not classified

Neurological Effects: No data available

Mutagenic Effects: No data available

Reproductive Effects: May damage fertility or the unborn child.

Developmental Effects: No data available
Target Organ Effects: Not classified
Other adverse effects: Not classified

12. ECOLOGICAL MEASURES

Ecotoxicity:Not classifiedPersistence/Degradability:Not stablishedMobility in EnvironmentalNot Available

Media:

Bioaccumulation/ N,N-Dimethylformamide (CAS # 68-12-2)

Accumulation: BCF Fish 1 0.3 –1.2 Log Pow -1.028

13. DISPOSAL MEASURES

Waste Disposal Method: Dispose of contents / container in accordance with local, regional, national, and

international regulation

Contaminated Packaging: Avoid contact with skin and clothing. Place contaminated packaging in a break proof

outer vessel and dispose on in compliance with national and local regulations.

US EPA Waste Number: Not Available

14. TRANSPORTATION MEASURES

DOT: Not regulated for transport

IATA: Not regulated for transport

ADR (road)/ RID (rail): Not regulated for transport

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IMDG (sea): Not regulated for transport

General Transport

Regulations

Not regulated for transport

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). N,N-Dimethylformamide (conc. >1%); CAS # 68-12-2

REACH (EU) 1907/2006 N,N-Dimethylformamide (conc. >1%); CAS # 68-12-2 included in the Candidate List of

Substances of Very High Concern (SVHC)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

This product contains no chemicals which are subject to the reporting requirements of the Clean Air Act2

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals

This product contains the following Proposition 65 chemicals: N,N-Dimethylformamide.

Type of Toxicity: Cancer. CAS no. 68-12-2. Listed: 27 Oct 2017

State Right to Know Act

Chemical Name N,N,-Dimethylformamide

Massachusetts: Listed
New Jersey: Listed
Pennsylvania: Listed

New York: Not Applicable

Rhode Island: Not Applicable

International Inventories

Chemical Name N,N,-Dimethylformamide

TSCAL: Listed DSL: Listed NDSL: Not Listed **EINECS:** Listed CHINA: Listed **KECL:** Listed JAPAN: Listed AICS: Listed

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EU Regulations

Annex I Index#: 616-001-00-X

Classification: Flammable liquids (Category 3), H226

Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312

Eye irritation (Category 2A), H319

Reproductive toxicity (Category 1B), H360

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Regulation (EC)

No 1272/2008

REACH (EU) 1907/2006

This Product contains N,N-Dimethylformamide (conc. > 1%); CAS # 68-12-2, included in the Candidate List of Substances of Very High Concern (SVHC)

Flam. Liq. 3; Acute Tox. 4; Eye Acute Tox. Acute toxicity Eye Irrit. Eye irritation Flam. Liq. Flammable liquids H226

Irrit. 2A; Repr. 1B; H226, H312 Flammable liquid and vapor.

+ H332, H319, H360 H312 Harmful in contact with skin.

90 - 100 % H312 + H332 Harmful in contact with skin or if inhaled

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H360 May damage fertility or the unborn child.

Hazard Statements: H226 Flammable liquid and vapor.

H312 + H332 Harmful in contact with skin or if inhaled

H319 Causes serious eye irritation.

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Precautionary Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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/ protective clothing/ eye protection/ face protection.

P303 + P361 + P35 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

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P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified or not covered by GHS: Rapidly absorbed through skin.

Symbols and Indications of Danger:

GHS02

GHS07

GHS08

Danger

Specific Concentration

Limits:

Not Applicable

16. OTHER INFORMATION

The above information is believed to be accurate, complete and current but does not purport to be all inclusive and shall be used as a guide. SeraCare Life Sciences makes no representation or warranties with respect to the product described herein, including but not limited to any implied warranties or merchantability or fitness for a particular use. SeraCare assumes no liability or responsibility and authorizes no other person to assume any additional liability or responsibility as a result of the use of this product or the information contained in the Safety Data Sheet.

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