

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PB1410-1L; PB1440-1L

Product Name: 1X Tris-Glycine (TG) Buffer; 10X Tris-Glycine (TG) Buffer

Intended Use:

For research use only. Not for use in diagnostic procedures.

Company Headquarters:

Vivantis Technologies Sdn Bhd
Revongen Corporation Center
Level 17, Top Glove Tower,
No. 16, Persiaran Setia Dagang,
Setia Alam, Seksyen U13, 40170 Shah Alam,
Selangor Darul Ehsan, Malaysia.
Tel: +6 03 3359 1166
Fax: +6 03 3358 0303
Email: info@vivanttechnologies.com
Website: www.vivanttechnologies.com

Company Manufacturing:

Vivantis Technologies Sdn Bhd
Production Lab
Level 1, Enterprise 2,
Technology Park Malaysia,
Lebuhraya Puchong-Sg. Besi,
57000 Bukit Jalil,
Kuala Lumpur, Malaysia

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	%
Glycine	56-40-6	-	<15
Tris(hydroxymethyl)aminomethane	77-86-1	201-064-4	<5

See actual entry in RTECS for complete information.

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

No information available.

Irritant: Irritating to eyes, respiratory system and skin.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

In case of skin contact, immediately wash skin thoroughly with soap and copious amounts of water.

In case of inhalation, remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.

In case of ingestion, wash out mouth with water provided person is conscious. Call a physician. Wash contaminated clothing before reuse.

SECTION 5: FIRE FIGHTING MEASURES

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray, dry chemical, carbon dioxide or appropriate foam.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and fully protective gear.

Hazardous decomposition products formed under fire conditions: No data available.

Flash point: No data available.

Explosion data – sensitivity to mechanical impact: No data available.

Explosion data – sensitivity to static discharge: No data available.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, wear respirator, chemical safety goggles, boots and heavy gloves. For cleaning up, sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

Wash thoroughly after handling.
Keep in tightly closed container, stored in cool and dry area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye protection	Employees should wear chemical safety goggles to prevent eye contact with this substance.
Skin protection	Employee must wear compatible chemical-resistant gloves to prevent contact with this material.
Respiratory protection	Employee must wear NIOSH/MSHA-approved respirator to avoid inhalation.

For engineering measures, use in hood with mechanical exhaust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellowish
Physical state:	Liquid
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	No information available
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	No information available
Flash point:	Not applicable
Autoignition temperature:	No data available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Explosive properties:	No information available

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Oxidizing properties:	No information available
Solubility:	No information available
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Toxic fumes of carbon monoxide, carbon dioxides, nitrogen oxides and ammonia.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known based on information supplied.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

May be harmful by inhalation, ingestion or skin absorption. Causes eye and skin irritation.

Material is irritating to mucous membrane and upper respiratory tract.

STOT – single exposure:	No information available
STOT – repeated exposure:	No information available

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

SECTION 12: ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13: DISPOSAL CONSIDERATIONS

Observe all local environmental regulations.

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SECTION 14: TRANSPORT INFORMATION

Not regulated.

SECTION 15: REGULATORY INFORMATION

European information

Irritant

R: 36/37/38

Irritating to eyes, respiratory system and skin.

S: 36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

SECTION 16: OTHER INFORMATION

The information contained in this MSDS relates only to the material(s) designed and does not relate to use(s) in combination with any other material, process(es) and /or chemical reaction(s). Vivantis Technologies Sdn. Bhd. provides this information in good faith, from sources believed to be accurate; however, Vivantis assumes no liability for its accuracy or completeness, and thus shall not be held liable for any damage resulting from handling or from contact with the above product.

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