

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

Document No.: MSDSrev05_TAE

Date prepared: 10th January 2023

Reviewed: 10th January 2023

SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PB0940-1L; PB0950-1L; PB0990-1L

Product Name: 10X Tris-Acetate-EDTA (TAE) Buffer, pH 8.0; 20X Tris-Acetate-EDTA (TAE) Buffer, pH 8.0; 50X Tris-Acetate-EDTA (TAE) Buffer, pH 8.0

Intended Use:

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

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	%
Ethylenediaminetetraacetic acid (EDTA), disodium dihydrate	6381-92-6	-	<10
Acetic acid	64-19-7	200-580-7	<10
Tris(hydroxymethyl)aminomethane	77-86-1	201-064-4	<25

See actual entry in RTECS for complete information.

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification according to Regulation (EC) No. 1272/2008

Skin irritation – Category 2
 Eye irritation – Category 2
 Specific target organ toxicity - single exposure – Category 3

GHS Label elements, including precautionary statements



Signal word: Warning

Hazard statements

H315 Causes skin irritation
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Classification according to EU Directives 67/548/EEC or 1999/45/EC



Hazard symbol: Xi, Irritant

R-phrase(s) R36/37/38

Irritating to eyes, respiratory system and skin.

S-phrase(s) S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

GHS Classification

Not a hazardous substance or mixture according to Singapore Standard SS 586 Part 2.

GHS Label Elements

Not a hazardous substance or mixture according to Singapore Standard SS 586 Part 2.

SECTION 4: FIRST-AID MEASURES

In case of inhalation, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact, wash off with soap and plenty of water. Consult a physician.

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of ingestion, rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

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SECTION 5: FIRE FIGHTING MEASURES

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

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

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

Hazardous decomposition products 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For environmental protection, prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

For cleaning up, pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Keep in tightly closed container, stored in cool and dry area.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

For control of environmental exposure, prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear/Colorless
Physical state:	Liquid
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	8.0
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
Oxidizing properties:	No information available
Solubility:	Soluble
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:	Acids, oxidizing agents, strong oxidizing agents.
Hazardous decomposition products:	No data available.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known based on information supplied.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

No data available.

Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Reproductive toxicity:	No data available
STOT – single exposure:	No information available
STOT – repeated exposure:	No information available
Aspiration hazard:	No data available

Carcinogenicity

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

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects:	Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with federal, state and local environmental regulations.

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

For contaminated packaging, dispose as waste material.

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SECTION 14: TRANSPORT INFORMATION

ADR/RID

UN No.: -
 Proper shipping name: Not dangerous goods
 Transport hazard class(es): -
 Packaging group: -
 Environmental hazards: No
 Special precautions for user: No data available

IMDG

UN No.: -
 Proper shipping name: Not dangerous goods
 Transport hazard class(es): -
 Packaging group: -
 Environmental hazards: No
 Special precautions for user: No data available

IATA

UN No.: -
 Proper shipping name: Not dangerous goods
 Transport hazard class(es): -
 Packaging group: -
 Environmental hazards: No
 Special precautions for user: No data available

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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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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