

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PR0614-500g; PR0614-1kg

Product Name: Tris-HCl

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.
1,3-Propanediol,2-amino-2-(hydroxymethyl),hydrochloride	77-86-1	201-064-4

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

GHS labels 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.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302+P352 If on skin, wash with plenty of soap and water
- P304+P340 If inhaled, remove victim to fresh air and keep at rest in a position
- P305+P351+P338 If in eyes, rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

OSHA Hazards

- Skin corrosion/irritation- Category 2
- Serious eye damage/eye irritation- Category 2
- Specific target organ toxicity (single exposure)- Category 3

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SECTION 4: FIRST-AID MEASURES

In case of eye contact, wash copiously with water for up to 15 minutes. Consult a physician.

In case of skin contact, wash with soap and excess water. Remove all contaminated clothes and shoes. Seek medical assistance if irritation is persistent.

In case of inhalation, remove victim to fresh air. If not breathing give artificial respiration. Seek medical assistance if there are problems.

In case of ingestion, wash out mouth with water provided the person is conscious. Never give anything by mouth to an unconscious person. Seek medical assistance if there is abdominal discomfort.

SECTION 5: FIRE FIGHTING MEASURES

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

Use water spray, dry chemical, earth, sand, regular foam or carbon dioxide.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides

Explosion data – sensitivity to mechanical impact: None.

Explosion data – sensitivity to static discharge: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Ensure adequate ventilation.

For environmental precautions, prevent further spillage if safe to do so.

For cleaning up, sweep up and shovel. Avoid dust formation. Pick up and transfer to suitable, closed containers for disposal. Ventilate area and wash spill site after material pickup is done.

SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Hygroscopic.

Incompatible with strong oxidizing agents and bases.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	Where exposure limits are exceeded, wear respiratory protection. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Positive pressure-supplied air respirators may be required for high airborne contamination concentrations.
Eye/face protection	Use safety glasses with side-shields.
Skin and body protection	Impervious clothing. Wear protection gloves/clothing.

Use engineering measures such as showers, eyewash stations and ventilation systems. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White
Physical state:	Crystalline powder to needle-like crystals
Odor:	No information available
Odor threshold:	No information available
pH:	pH 3.5 – 5 (1% aqueous solution)
Melting Point:	No information available
Boiling Point:	150 - 153°C
Flash Point:	No information available
Auto-ignition temperature:	No information available
Ignition Temperature:	No data available
Explosive Properties:	No data available
Water Solubility:	Soluble
Partition coefficient (n-octanol/water):	No information available
Bulk density:	No information available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents, bases
Hazardous decomposition products:	Carbon oxides, nitrogen oxides
Condition to avoid:	Hygroscopic

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

No information available.

Chronic toxicity

No information available.

100% of the mixture consists of ingredient(s) of unknown toxicity.

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

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

For contaminated packing too dispose of as unused product in accordance with all federal, state and local environmental regulation. Do not reuse empty container.

For surplus and non-recyclable solution, offer to a licensed disposal company.

Observe all federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (US)

Not dangerous products.

IATA

Not dangerous products.

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SECTION 15: REGULATORY INFORMATION

International inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Do not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372.

SARA 311/312 Hazards Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Prop. 65 Components

This product does not contain any Proposition 65 chemicals.

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U.S. EPA Label Information

EPA Pesticide Registration Number

Not regulated.

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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