



MATERIAL SAFETY DATA SHEET

VIVANTIS TECHNOLOGIES SDN BHD REVONGEN CORPORATION CENTER

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: Product Name: PB0570-500ML 5M Sodium Chloride

Intended Use: For research use only. Not for use in diagnostic procedures.

Company Headquarters:

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	%
Sodium chloride	7647-14-5	231-598-3	-

Chemical formula: NaCl

Molecular weight: 58.44 g/mol

See actual entry in RTECS for complete information.

SECTION 3: HAZARDS IDENTIFICATION WHMIS Classification

D2B Toxic material

Causing other toxic effects mild skin irritant, mild eye irritant.

GHS Classification

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

HMIS Classification

Health hazard:1Flammability:0Physical hazards:0

Potential Health Effects

In case of inhalation, may be harmful and cause respiratory tract irritation. In case of skin contact, may be harmful and cause skin irritation. In case of eye contact, may cause eye irritation. In case of ingestion, may be harmful.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. In case of skin contact, wash off immediately with soap and plenty of water. In case of inhalation, move person to fresh air. If not breathing, give artificial respiration. In case of ingestion, clean mouth with water. Never give anything by mouth to an unconscious person.

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SECTION 5: FIRE FIGHTING MEASURES

Not flammable.

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

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

For special firefighting procedures, wear self-contained breathing apparatus for firefighting if necessary.

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

Flash point:	Not determined.
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, avoid dust formation. For environmental precautions, do not let product enter drains. For cleaning up, sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contain no substances with occupational exposure limit values.

Eye/Face ProtectionSafety glasses.Hand ProtectionHandle with gloves.Respiratory ProtectionRespiratory protection is not required. Where protection from nuisance
levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust
masks. Use respirators and components tested and approved under
appropriate government standards such as NIOSH (US) or CEN (EU).

Handle in accordance with general industrial hygiene practice.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical state: Odor: Odor threshold: Density: pH: Melting point: Freezing point: Initial Boiling point: Boiling point: Flash point: Autoignition temperature: Decomposition temperature: Upper Flammability limit in air: Lower Flammability limit in air: Explosive properties: Oxidizing properties: Solubility: Partition coefficient (n-octanol/water): Vapor pressure: Vapor density: Evaporation rate: Specific gravity: Viscosity:

Clear/Colorless Liquid No information available No information available 2.1650 g/cm^3 7 801°C (1474 °F) 1413 °C (1575°F) No information available No information available Not applicable No data available No information available No data available No data available No information available No information available Soluble in water No data available No data available 1.33 hPa (1.00 mmHg) at 865°C (1589 °F) No data available No data available No information available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.Materials to avoid:StHazardous decomposition products:StHazardous polymerization:NeConditions to avoid:Ne

Strong oxidizing agents. Sodium/sodium oxide, hydrogen chloride gas. No data available. No data available.

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SECTION 11: TOXICOLOGICAL INFORMATION Acute toxicity

Oral LD50: Inhalation LC50: Dermal LD50:

Skin corrosion/irritation: Serious eye damage/eye irritation: Respiratory or skin sensitization: Rat – 3000 mg/kg Rat – > 42000 mg/kg – 1hr Rabbit – > 10000 mg/kg

Rabbit – Mild – 24 hrs Rabbit – Mild No data available

Chronic toxicity

No data available.

Signs and symptoms of exposure

Vomiting, diarrhea, dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

LC50	Fish – Lepomis macrochirus (Bluegill) – 1294.6 mg/L – 96 hrs
	Water flea – Daphnia magna – 1661 mg/L-48hrs

NOEC Pimephales promelas (Fathead minhow) -4000mg/L -7 days Daphnia -1500 mg/L -7 days

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SECTION 13: DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations. Dispose waste material by contact a licensed professional waste disposal service. For contaminated packaging, dispose as waste material.

SECTION 14: TRANSPORT INFORMATION

<u>DOT (US)</u>

Not dangerous goods

<u>IMDG</u> Not dangerous goods <u>IATA</u> Not dangerous goods

SECTION 15: REGULATORY INFORMATION TSCA Status

On TSCA inventory

DSL Status

All components of this product are on the Canadian DSL list.

WHMIS Classification

D2B

Causing other toxic effects mild skin irritant, mild eye irritant.

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SECTION 16: OTHER INFORMATION

Toxic material

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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