

**MATERIAL SAFETY DATA SHEET
VIVANTIS TECHNOLOGIES SDN BHD**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PC0914-500g; PC0914-1kg
Product Name: Sodium chloride

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

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	EC No.	%	Classification
Sodium chloride	7647-14-5	231-598-3	95-100	Xi;R36/37/38

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

Skin Irritant – Category 2

Eye Irritant – Category 2

GHS Label elements, including precautionary statements



Signal word: Danger

Hazard statements

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

Precautionary statements

- 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 comfortable for breathing
- 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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SECTION 4: FIRST-AID MEASURES

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

In case of skin contact, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If breathing becomes difficult, give oxygen.

In case of ingestion, clean mouth with water and drink plenty of water.

SECTION 5: FIRE FIGHTING MEASURES

Not flammable.

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

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

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

Hazardous decomposition products formed under fire conditions: Sodium/sodium oxides.

Flash point: Not determined.

Explosion data – sensitivity to mechanical impact: Not sensitive.

Explosion data – sensitivity to static discharge: Not sensitive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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

For cleaning up, sweep up and place in closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

Do not breathe vapors/dust.

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under inert gas. Protect from moisture.

Incompatible with strong oxidizing agents.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure-supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Eye/Face protection	Tightly lifting safety goggles.
Skin and body protection	Wear protective gloves and 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:	Powder
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	pH4.5-7 (100g in 1L)
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	2575°C
Flash point:	No information available
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Oxidizing properties:	No information available
Solubility:	Soluble in water
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No information available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	2.165
Viscosity:	No information available
Specific gravity:	No data available
Solubility:	No data available

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Viscosity:	No information available
Vapor density:	No data available
Density:	No data available
Partition coefficient (n-octanol/water):	No data available
Evaporation rate:	No data available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Incompatible products:	Strong oxidizing agents.
Hazardous decomposition products:	Sodium/sodium oxides.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known based on information supplied.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Causes skin, eye and respiratory tract irritation.

Oral LD50:	Rat – 42g/m ³ – 1 hr
Inhalation LC50:	-
Dermal LC50:	Rabbit – 10 g/kg

Chronic toxicity

Chronic toxicity	No known effect based on information supplied.
Target organ effects	Eyes, skin, respiratory system.

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 – 12946 mg/L – 96 hrs
	Fish – Pimephales promelas – 7650 mg/L – 96 hrs
	Fish – Lepomis macrochirus – 9675 mg/L – 96 hrs
EC50:	Daphna magna (water flea) – 1000 mg/L – 48 hrs

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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with all federal, state and local regulations.
For contaminated packaging, dispose as waste material.

SECTION 14: TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

SECTION 15: REGULATORY INFORMATION

International Inventories:

TSCA:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL:	Complies
PICCS:	Complies
AICS:	Complies

United States Federal Information:

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 Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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).

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

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico – Grade No information available.

WHMIS Hazard Class

D2B Toxic materials



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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