

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

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0910-500g  
Product Name: Potassium chloride

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.
Potassium chloride	7447-40-7	231-211-8

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

Skin irritant - Category 2  
 Eye irritant - Category 2

**GSH 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**

P280 Wear protective gloves/ clothing/ eye protection/ face protection.  
 P302 + P352 Wash with plenty of soap and water if on skin.

P304 + P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing if inhaled.

P305 + P351 + P338 Rinse cautiously with water for several minutes if contact with eyes. Remove contact lens 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, lifting lower and upper eyelids. 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 not breathing, give artificial respiration.

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

## **SECTION 5: FIRE FIGHTING MEASURES**

Not flammable.

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

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

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, hydrogen chloride gas

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. Ensure adequate ventilation, especially in confined areas. Avoid dust formation and contact with skin, eyes and clothing.

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

For cleaning up, pick up and transfer to properly labeled 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. Do not breathe vapors/ dust. Remove and wash contaminated clothing before re-use.

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

Incompatible with strong oxidizing agents and strong acids.

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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 tightly fitting safety goggles.
Skin and body protection	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:	Powder
Odor:	No information available
Odor threshold:	No information available
Density:	1.984
pH:	No information available
Melting point:	700°C
Boiling point:	1500°C
Initial boiling point:	No information available
Freezing point:	No information available
Flash point:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	No information available
Upper flammability limits in air:	No data available
Lower flammability limits in air:	No data available
Explosive properties:	No data available
Oxidizing properties:	No information available
Water Solubility:	Soluble – 28g/100mL
Partition coefficient (n-octanol/water):	No data available
MMHG @ 37.8°C:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

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**SECTION 10: STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents, strong acids
Hazardous decomposition product:	Carbon oxides, hydrogen chloride gas
Hazardous polymerization:	Do not occur
Condition to avoid:	None known based on information supplied

**SECTION 11: TOXICOLOGICAL INFORMATION****Acute toxicity**

This product irritates skin, eye and respiratory tract when come in contact. May be harmful if ingested.

Oral LD50: Rat – 2600mg/kg

**Chronic toxicity**

This product has no known chronic effect based on information supplied.

This product has target organ effects towards heart.

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

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

This product is harmful to aquatic organisms.

LC50: Fish – Pimephales promelas – 750-1020mg/L – 96hrs

Fish – Lepomis macrochirus – 1060mg/L – 96hrs

EC50: Daphnia magna (water flea) – 825 mg/L – 48hrs

Algae – 2500mg/L – 72hrs

**SECTION 13: DISPOSAL CONSIDERATIONS**

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

Observe all federal, state and local environmental regulations.

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**SECTION 14: TRANSPORT INFORMATION**

**DOT**

Not regulated.

**IATA**

Not regulated.

**SECTION 15: REGULATORY INFORMATION**

**International inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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	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).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)**

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

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## U.S. State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## International Regulations

### **Canada**

### **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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