

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

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0920-100g  
Product Name: Ficoll 400

**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.	%
Ficoll 400	26873-85-8	-	95-100

Synonyms: Ficoll PM400  
Molecular Weight: 350000 - 500000

**SECTION 3: HAZARDS IDENTIFICATION**

**WHMIS Classification**

Not WHMIS controlled.

**GHS Classification**

Not a dangerous substance.

**HMIS Classification**

Health Hazard: 0  
Flammability: 0  
Physical hazards: 0

**Potential Health Effects**

In case of inhalation, may cause irritation to respiratory tract.  
In case of skin contact, may cause irritation to skin.  
In case of eye contact, may cause irritation to eyes.  
In case of ingestion, may be harmful if swallowed.

**SECTION 4: FIRST-AID MEASURES**

In case of eye contact, flush eyes with water as a precaution.  
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, never give anything by mouth to an unconscious person. Rinse mouth with water.

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

Not flammable.

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 formed under fire conditions: Not known.

Explosion data – sensitivity to mechanical impact: Not data available.

Explosion data – sensitivity to static discharge: Not data available.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

For personal protection, avoid dust formation. Avoid breathing vapors, mist or gas.

For environmental precautions, do not let product enter drains.

For cleaning up, sweep up and shovel the materials. Keep in suitable, closed containers for disposal.

### **SECTION 7: HANDLING AND STORAGE**

Handle in accordance with good industrial hygiene and safety handling practice.

When dust is formed, provide appropriate exhaust ventilation.

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

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection	Respiratory 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).
Skin and body protection	Wear body protection that compatible with its type, concentration and amount of dangerous substance and specific workspace. Type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Eye/Face protection	Wear eye protection equipment tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

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**Hand 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.

Use engineering measure such as mechanical exhaust or laboratory fume hood to avoid exposure. Handle in accordance with general industrial hygiene 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:	No information available
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 in water
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

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## SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents.  
 Hazardous decomposition products: Not data available.  
 Hazardous polymerization: No data available.  
 Conditions to avoid: No data available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity:

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.  
 ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### Potential Health Effects

Inhalation May be harmful if inhaled. May cause irritation to respiratory tract.  
 Ingestion May be harmful if swallowed.  
 Eye May cause irritation to eyes.  
 Skin May be harmful if absorbed through skin. May cause irritation to skin.

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

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Toxicity: No data available.  
 Persistence and degradability: No data available.  
 Bioaccumulative potential: No data available.  
 Mobility in soil: No data available.  
 PBT and vPvB assessment: No data available.  
 Other adverse effects: No data available.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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

## **SECTION 14: TRANSPORT INFORMATION**

### **DOT (US)**

Not dangerous goods.

### **IATA**

Not dangerous goods.

### **IMDG**

Not dangerous goods.

## **SECTION 15: REGULATORY INFORMATION**

### **WHMIS Classification**

Not WHMIS controlled.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## **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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