

**MATERIAL SAFETY DATA SHEET**

**VIVANTIS TECHNOLOGIES SDN BHD  
REVONGEN CORPORATION CENTER**

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PB0640-500ML

Product Name: 10% Sodium Dodecyl Sulfate (SDS) Solution

**Intended Use:**

For research use only. Not for use in diagnostic procedures.

**Company Headquarters:**

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**Company Manufacturing:**

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	EC No.	%
Sodium Dodecyl Sulfate	151-21-3	205-788-1	5-15

Synonym: SDS 10% solution

See actual entry in RTECS for complete information.

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

Skin sensitizer – Category 1  
 Respiratory sensitizer – Category 1  
 Skin irritant – Category 2  
 Eye irritant – Category 2

**GHS Label elements, including precautionary statements**



Signal word: Danger

**GHS Classification according to Singapore SS 586 Part 2**

Skin sensitizer – Category 1  
 Respiratory sensitizer – Category 1  
 Skin irritant – Category 2  
 Eye irritant – Category 2



Signal word: Danger

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## Hazard statements

H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H303	May be harmful if swallowed
H313	May be harmful in contact with skin

## Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
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.

## SECTION 4: FIRST-AID MEASURES

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes and 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 afterwards drink plenty of water.

## 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.

Hazardous decomposition products formed under fire conditions: Carbon oxides, sulfur oxides.

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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, wear 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, absorb with sand or vermiculite. Pick up and transfer to properly labeled containers.

Ventilate area and wash spill site after material pickup is complete.

**SECTION 7: HANDLING AND STORAGE**

Handle in accordance with good industrial hygiene and safety practice.

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

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

Eye/face protection	Tightly fitting safety goggles.
Skin and body protection	Wear protective gloves/clothing.
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.

Use engineering measures such as showers, eyewash stations and ventilation systems.

Handle in accordance with good industrial hygiene and safety practice.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear/Colorless
Physical state:	Liquid
Odor:	No information available
Odor threshold:	No information available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	No data available
Flash point:	No information available
Flammability:	No information available
Evaporation rate:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Specific gravity:	No information available
Solubility:	No information available
Partition coefficient (n-octanol/water):	No data available
Autoignition temperature:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available
Viscosity:	No information available

### SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	No information available.
Hazardous decomposition products:	Carbon oxides, sulfur oxides.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	None known based on information supplied.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral LD50:	Rat – 1288 mg/kg
Inhalation LC50:	Rat – 3900 mg/m <sup>3</sup> – 1 hr
Dermal LD50:	Rabbit – 580 mg/kg

### Chronic toxicity

Chronic toxicity:	No known effect based on information supplied.
Target organ effects:	None known.

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

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms.

LC50:	Fish
	Pimephales promelas – 15-18.9 mg/L – 96 hrs
	Lepomis macrochirus – 4.06-5.75 mg/L – 96 hrs
	Lepomis macrochirus – 4.2-4.8 mg/L – 96 hrs
	Pimephales promelas – 6.2-9.6 mg/L – 96 hrs
	Oncorhynchus mykiss – 4.2 mg/L – 96 hrs
	Poecilia reticulata – 13.5-18.3 mg/L – 96 hrs
	Pimephales promelas – 5.8-7.5 mg/L – 96 hrs
	Brachydanio rerio – 9.9-20.1 mg/L – 96 hrs
	Pimephales promelas – 10.2-22.5 mg/L – 96hrs
	Pimephales promelas – 8-12.5 mg/L – 96 hrs
	Lepomis macrochirus – 4.5 mg/L – 96 hrs
	Oncorhynchus mykiss – 4.62 mg/L – 96 hrs
	Poecilia reticulata – 10.8-16.6 mg/L – 96 hrs
	Pimephales promelas – 22.1-22.8 mg/L – 96 hrs
	Oncorhynchus mykiss – 4.3-8.5 mg/L – 96 hrs
	Cyprinus carpio – 1.31 mg/L – 96 hrs
	Brachydanio rerio – 7.97 mg/L – 96 hrs
EC50:	Algae – 3.59-15.6 mg/L – 96 hrs, 117 mg/L – 96 hrs, 53 mg/L – 72 hrs, 100 mg/L – 96 hrs

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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

**SECTION 14: TRANSPORT INFORMATION**

**IATA**

Not regulated.

**DOT**

Not regulated.

**SECTION 15: REGULATORY INFORMATION**

**REACH Title VII Restrictions:**

No information available

**International Inventories:**

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Complies
<b>AICS</b>	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	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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## **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) (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**

D2A Very toxic materials

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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