

**MATERIAL SAFETY DATA SHEET**

**VIVANTIS TECHNOLOGIES SDN BHD  
REVONGEN CORPORATION CENTER**

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PB0245-500ml

Product Name: 0.5M EDTA, pH 8.0

**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.	%
Ethylenediaminetetraacetic acid (EDTA), disodium dihydrate	6381-92-6	-	15-25
Sodium hydroxide	1310-73-2	215-185-5	<2

See actual entry in RTECS for complete information.

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

Skin irritant – Category 2

Eye irritant – Category 2

**GHS 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/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, immediately flush eyes with copious amounts of water for at least 15 minutes and consult a physician.

In case of skin contact, immediately wash skin with soap and copious amounts of water. Remove all contaminated clothes and shoes.

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

In case of ingestion, wash 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.

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

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, nitrogen 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, 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 containers tightly closed in a dry, cool and well-ventilated place.

Incompatible with strong oxidizing agents.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	Control parameters
Sodium hydroxide	TWA (OSHA PEL): 2 mg/m <sup>3</sup> IDLH (NIOSH IDLH): 10 mg/m <sup>3</sup> Ceiling (NIOSH IDLH): 2 mg/m <sup>3</sup>
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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to slightly yellow haze-free
Physical state:	Liquid
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	pH 8.0
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
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available

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Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

## SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides, nitrogen oxides.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to Avoid:	None known based on information supplied.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

Irritating to eye, skin and respiratory system.

Oral LD50:	-
Inhalation LC50:	-
Dermal LD50:	Rabbit – 1350 mg/kg

### Chronic toxicity

No known effect based on information supplied.

Target Organ Effects:	None known.
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## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic organisms.

LC50:	Oncorhynchus mykiss – 45.4 mg/L – 96 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.

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**SECTION 14: TRANSPORT INFORMATION**

**IATA**

Not regulated.

**DOT**

Not regulated.

**SECTION 15: REGULATORY INFORMATION**

**REACH Title VII Restrictions:**

No information available

**Sodium hydroxide**

Dangerous substances:	≥ 1% weight
Organic solvents:	Not applicable
Harmful substances whose names are to be indicated on the label:	Not applicable
Pollution release and transfer registry (Class II):	Not applicable
Pollution release and transfer registry (Class I):	Not applicable
Poison and deleterious substance control law:	Not applicable

ISHA-harmful substances Prohibited for manufacturing, importing, transferring, or supplying:  
Not applicable

ISHA-harmful substances requiring permission:	Not applicable
Toxic chemical classification listing (TCCL)-toxic chemicals:	97-1-136, 5% or more mixtures
Toxic release inventory (TRI)-Group I:	Not applicable
Toxic release inventory (TRI)-Group II:	≥ 1.0%

**International Inventories:**

<b>TSCA</b>	Does not comply
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

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## United States Federal Regulations

**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

**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.

## CERCLA

### **Sodium hydroxide**

Hazardous substances RQs: 1000lb

Extremely Hazardous Substances RQs: -

## U.S. State Regulations

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

## U.S. State Right-to-Know Regulations

### **Sodium hydroxide**

Massachusetts: X

New Jersey: X

Pennsylvania: X

Illinois: -

Rhode Island: X

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**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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