

**MATERIAL SAFETY DATA SHEET**

**VIVANTIS TECHNOLOGIES SDN BHD  
REVONGEN CORPORATION CENTER**

Document No.: MSDSrev05\_Ldye

Date prepared: 10<sup>th</sup> January 2023

Reviewed: 10<sup>th</sup> January 2023

**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: NM0410; NM0410-S

Product Name: 6X Loading Dye (with xylene cyanol gel loading dye)

**Intended Use:**

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

**Company Headquarters:**

Vivantis Technologies Sdn Bhd  
Revongen Corporation Center  
Level 17, Top Glove Tower,  
No. 16, Persiaran Setia Dagang,  
Setia Alam, Seksyen U13, 40170 Shah Alam,  
Selangor Darul Ehsan, Malaysia.  
Tel: +6 03 3359 1166  
Fax: +6 03 3358 0303  
Email: [info@vivanttechnologies.com](mailto:info@vivanttechnologies.com)  
Website: [www.vivanttechnologies.com](http://www.vivanttechnologies.com)

**Company Manufacturing:**

Vivantis Technologies Sdn Bhd  
Production Lab  
Level 1, Enterprise 2,  
Technology Park Malaysia,  
Lebuhraya Puchong-Sg. Besi,  
57000 Bukit Jalil,  
Kuala Lumpur, Malaysia.

Pairing Nature with  
Scientific Discoveries

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	%
Water	7732-18-5	10-25%
Glycerol	56-81-5	60%
Bromophenol Blue	115-39-9	<1
Ethylenediaminetetraacetic acid, disodium salt (EDTA-Na <sub>2</sub> )	6381-92-6	≤2.39
Tris Hydrochloride (Tris-HCl)	1185-53-1	<1
Xylene cyanol FF	2650-17-1	<1

Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

## SECTION 3: HAZARDS IDENTIFICATION

### GHS Classification

This chemical is not considered hazardous by the GHS classification.

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC and is not labeled with danger symbols or indications of danger.

## SECTION 4: FIRST-AID MEASURES

In case of contact with eyes, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

In case of contact with skin, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms of irritation after prolonged exposure occur, consult a doctor.

If inhaled, remove victim from area of exposure to fresh air. If symptoms of irritation or respiratory allergy occur, consult a doctor.

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

Pairing Nature with  
Scientific Discoveries

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

### Extinguishing Media

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

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

Unsuitable Extinguishable media: No information available

### Special hazards arising from the chemical

No information available

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

### Personal Precautions

Wear appropriate gloves, safety glasses to clean small releases/spillage.

### Measures for Cleaning / Collecting

Soak up with inert absorbent material.

No dangerous substances are released.

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

### Handling

Handle in accordance with good industrial hygiene and safety practice.

### Storage

Keep tightly closed in a dry, cool and well-ventilated place. Store at -20°C.

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

### Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

### Engineering controls

No specific requirements relating to the preparation.

Pairing Nature with  
Scientific Discoveries

## Personal protection

Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection:	Wear rubber gloves. No specific requirements to rubber.
Skin Protection:	Wear protective gloves/clothing. No specific requirement.
Eye Protection:	Safety glasses with side shields. Avoid contact with eyes.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical Appearance:	Liquid
Odor:	None or odorless
Color:	Blue
pH:	8
Boiling Point:	No information available
Melting Point:	No information available
Flash Point:	No information available
Flammability:	The preparation is not flammable / self-igniting
Explosive properties:	The preparation does not possess explosive properties
Oxidizing properties:	No information available
Vapour pressure:	No information available
Vapour density:	No information available
Water solubility:	Soluble
Evaporation rate:	No information available
Relative density:	No information available
Specific gravity:	No information available
Partition coefficient:	No information available
Autoignition temperature:	No information available

## **SECTION 10: STABILITY AND REACTIVITY**

Stability:	Stable under storage conditions. Storage at room temperature may result in lowering of the specific activity, but not result in any hazardous reactions.
Conditions to avoid:	No conditions which may cause dangerous reactions.
Materials to avoid:	No dangerous reaction known under conditions of normal use.
Possibility of hazardous reactions:	No dangerous reactions known.
Hazardous Decomposition Products:	No dangerous decomposition products known.

Pairing Nature with  
Scientific Discoveries

## SECTION 11: TOXICOLOGICAL INFORMATION

Acute and chronic affects based on routes of exposure

Eye contact: May cause eye irritation with susceptible persons  
 Skin contact: May cause skin irritation in susceptible persons  
 Ingestion: May be harmful if swallowed  
 Inhalation: May be harmful if inhaled.

Skin sensitization: No information available  
 Respiratory sensitization: No information available  
 Germ cell mutagenicity: No information available  
 Carcinogenic effects: No information available  
 Reproductive toxicity: No information available  
 STOT – Single exposure: No information available  
 STOT – Repeated exposure: No information available  
 Chronic toxicity: No information available  
 Target organ effects: Kidneys, eyes, skin, respiratory system  
 Other adverse effects: No information available

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

No information available

### Persistence and degradability:

Inherently biodegradable

### Bioaccumulative potential:

Material does not bioaccumulate.

### Other adverse effects:

No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

No special disposal methods required, except to be in accordance with federal, state and local environmental regulations

Pairing Nature with  
Scientific Discoveries



**SECTION 14: TRANSPORT INFORMATION**

No additional transport regulations are known to the supplier.

IMDG: Non-hazardous for sea freight  
ADR: Non-hazardous for road transport  
RID: Non-hazardous for rail transport  
ICAO/IATA: Non-hazardous for air transport

**SECTION 15: REGULATORY INFORMATION****International Inventory**

TSCA: Comply

**United States Regulatory Information:**

SARA Listed: No

**Canada Regulatory Information:**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

**EU Guidelines:**

The preparation is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labeled with danger symbols or indications of danger.

**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.

All Vivantis products are supplied for manufacturing, research and laboratory use only. Researchers and laboratory personnel intending to use any of these products for medical investigation on human are solely responsible for such use and for compliance with the pertinent regulations of the United States Food & Drug Administration (US-FDA) and other regulations. We do not assume liability for damages resulting from the handling, use and/or disposal of these products, from their use in violation of patent or other rights or reliance upon this information.

Pairing Nature with  
Scientific Discoveries