

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: SD0103; SD0103-S

Product Name: ViSafe Red Gel Stain (10000X in water)

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.	%	Formula	Molecular Weight
Double distilled water	7732-18-5	231-791-2	>99%	H ₂ O	18
Red stain	Not applicable	Not applicable	<1%	Not applicable	Not applicable

SECTION 3: HAZARDS IDENTIFICATION

The substance not yet fully tested. To our knowledge, the hazards of this material have not been thoroughly investigated. We recommend handling all chemicals with caution.

Potential Health Effects:

- Not determined for inhalation, ingestion, skin and eyes contact.
- Not determined for chronic exposures and target organs.

Classification and labeling according to Regulation (EC) No. 1272/2008 [CLP]

Classification	None
Hazard pictogram	None
Signal word	None
Hazard statements	None
Precautionary statements	None

Classification according to Directive 1999/45/EC

None

HMIS Classification

Health hazard:	0
Flammability:	0
Physical hazards:	0

NFPA Rating

Health Hazard:	0
Fire:	0
Reactivity Hazard:	0

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SECTION 4: FIRST-AID MEASURES

The product is potentially harmful; avoid prolonged or repeated exposure. Wash thoroughly after handling.

In case of eye contact, wash thoroughly with water for up to 15 minutes. Seek medical assistance if there is persistent irritation.

In case of skin contact, wash with soap and excess water. Seek medical assistance if irritation is persistent.

In case of inhalation, move individual to fresh air. Give artificial respiration if not breathing. Seek medical assistance if there are problems.

In case of ingestion, never give anything by mouth to an unconscious person. Rinse mouth with water provided the person is conscious. Seek medical assistance if there are problems.

SECTION 5: FIRE FIGHTING MEASURES

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

Use water spray, carbon dioxide, foam or dry chemical to extinguish the fire.

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.

Flash point:	No information available
Explosion data – sensitivity to mechanical impact:	No information available
Explosion data – sensitivity to static discharge:	No information available

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, avoid inhaling this product and remove all sources of ignition. Avoid contact with skin, eyes and clothing by using personal protective equipment as needed.

For environmental precautions, prevent further leakage or spillage if safe to do so for containment. Do not let product enter drains. Discharge into the environment must be avoided.

For cleaning up, absorb on sand or vermiculite. Pick up and transfer to properly label closed containers for disposal according to local regulations. Wash spill site and ventilate area after picking up is completed.

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SECTION 7: HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

Storage

Keep containers tightly closed in a dry, cool, dark and well-ventilated place to protect product quality. Desiccation required.

Store at 4°C for daily use or frequent use; store at -20°C for long term use.

Protect material from long-term exposure to light; may be exposed to light for short periods of time.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH/OSHA Permissible Exposure Limit Data: Not determined

Respiratory protection	Irritation may experience if exceeded exposure limits. NIOSH/MSHA approved respiratory protection should be worn at all time. Respiratory protection must be provided in accordance with current local regulations. Use process enclosures, local exhaust ventilation, or other engineering controls as needed.
Eye/Face protection	Wear tightly fitted safety goggles. Where contact with the eyes is likely, use chemical goggles.
Hand Protection	Use chemical-resistant gloves as needed. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Skin and body protection	Wear clean protective body covering clothing as needed to minimize contact with clothing and skin.

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

Handle in accordance with good industrial hygiene and safety practice.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pinkish-red
Physical state:	Liquid
Odor:	No information available
Odor threshold:	No information available
Relative density:	No information available
pH:	pH6-9
Melting point:	No information available
Freezing point:	No information available
Boiling point:	No information available
Flash point:	No information available
Auto-ignition temperature:	No information available
Decomposition temperature:	No information available
Flammability:	No information available
Explosive limits:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available
Solubility:	Soluble
Partition coefficient:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Evaporation rate:	No information available
Viscosity:	No information available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	No data available.
Hazardous decomposition products:	Carbon oxides.
Hazardous polymerization:	No dangerous reactions identified.
Conditions to avoid:	Protect from heat, flames and sparks.

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SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity: We are not aware of any toxicity data for this product.
 Potential Hazards: The complete properties have not been investigated; however, similar compounds are known to be chemically reactive with proteins and other biochemicals. This product should be treated as potentially hazardous.
 Carcinogenicity: Not listed by NTP, IARC or OSHA

Acute toxicity
 Oral LD50 None
 Inhalation LC50 None
 Dermal LD50 None
 Other information on acute toxicity No data available
 Skin corrosion/irritation No data available
 Serious eye damage/eye irritation No data available
 Respiratory or skin sensitization No data available
 Germ cell mutagenicity 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.
 NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available
 Specific target organ toxicity – single exposure (GHS): No data available
 Specific target organ toxicity – repeated exposure (GHS): No data available
 Aspiration hazard: No data available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
 RTECS: None known

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No information available
Persistence and degradability:	No information available
Biodegradation:	No information available
Mobility in soil:	No information available
Results of PBT and vPvB assessment:	No information available
Other adverse effects:	No information available

To the best of our knowledge, the environmental impact of this product has not been fully investigated.

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Do not dispose product directly into sewage. The packaging of this product and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

IATA, IMDG, DOT (US):	Not dangerous good during transportation
Hazard Class:	Not determined
Identification Number:	Not determined
Packing Group:	Not determined
Proper Shipping Name (Technical Name):	Not determined
Environmental Hazards:	None
Special Precaution for User:	None

SECTION 15: REGULATORY INFORMATION

US Toxic Substances Control Act (TSCA):	Not listed
SARA 302:	No chemicals were found
SARA 311/312:	No chemicals were found
SARA 313:	No chemicals were found
EEC EINICS Number:	Not identified
EEC Risk Statements:	Not determined
Other Country Regulations:	None identified

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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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