

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

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PC0924-1L
Product Name: Tween 80

Intended Use:
For research use only. Not for use in diagnostic procedures.

Company Address:

Vivantis Technologies Sdn Bhd
No. 12A, Jalan TP5,
Taman Perindustrian UEP,
47600 Subang Jaya,
Selangor Darul Ehsan, Malaysia.
Tel: +6 016 226 0492
Email: info@vivanttechnologies.com
Website: www.vivanttechnologies.com

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%
Polyoxyethylene 20 sorbitan monooleate	9005-65-6	95-100

Synonyms: Armotan PMO-20; capmul POE-O; durfax 80; emsorb 6900; ethoxylated sorbitan monooleate; glycosperse o-20; glycosperse o-20 VEG; glycosperse o-20x; monitan; montanox 80; olothorb; polyethylene oxide sorbitan mono-oleate; polyoxyethylene sorbitan monooleate; polyoxyethylene sorbitan mono-oleate; polyoxyethylene; sorbitan oleate; polysorban 80; polysorbate 80; polysorbate 81; polysorbate 80 B.P.C.; polysorbate 80, U.S.P.; sorbital 0 20; sorbitan mono-9-octadecenoate; sorbon T 80; sorethytan (20) monooleate; tween 81; tween 80 A

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

Not classified as hazard.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, immediately flush eyes with copious amount of water for at least 15 minutes and consult a physician.

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

In case of inhalation, move to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of ingestion, wash mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person.

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 full protective gear.

Hazardous decomposition products formed under fire conditions: Carbon oxides

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Flash point: >110°C.
 Explosion data – sensitivity to mechanical impact: Not sensitive.
 Explosion data – sensitivity to static discharge: Not sensitive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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, ventilate area and wash spill site after material pick up is complete. Absorb on sand or vermiculite and place in closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice
 Keep container tightly closed in a dry and well-ventilated place.
 Incompatible with bases, heavy metal salts and metallic salts.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
Eye protection	Safety glasses with side-shields.
Skin and body protection	Wear protective gloves/clothing.

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:	Golden yellow
Physical state:	No information available
Odor:	No information available
Odor threshold:	No information available
Density:	1.080
pH:	No information available
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	100°C
Flash point:	>100°C (>230°F)
Autoignition temperature:	No information available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Oxidizing properties:	No information available
Solubility:	No information available
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No information available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available
Specific gravity:	1.080
Solubility:	Soluble
Viscosity:	No information available
Vapor density:	No data available
Density:	No data available
Partition coefficient (n-octanol/water):	No data available
Evaporation rate:	No data available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Bases, heavy metal salts, metallic salts.
Hazardous decomposition products:	Carbon 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:

Product does not present an acute toxicity hazard based on known or supplied information.

Oral LD50:	Rat – 34500µl/kg
Inhalation LC50:	No data available
Dermal LD50:	No data available
Other information:	No data available

Chronic toxicity

No known effect based on information supplied.

Target organ effects: None known

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste materials in accordance with all federal, state, and local regulations.

For contaminated packaging, dispose as waste material.

SECTION 14: TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

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SECTION 15: REGULATORY INFORMATION

International Inventories

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

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
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.

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

Not determined.

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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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