



MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity:	Tween 80 (Polysorbate 80)		
Manufacturer's Name:	IMAHERB BIOTECH CO.,LTD	Emergency Phone No.:	0086-29-89121514
	Tangran Road xi'an	Fax No.:	0086-29-89121514
	Shaanxi China 710065	e-mail:	info@imaherb.com
Date Prepared or Revised:	December 2014	www.imaherb.com	

Section 2. Composition / Information on Hazardous Ingredients			
This product is a mixture of the substances listed below with the addition of nonhazardous materials.			
Hazardous Components Specific Chemical Identity:	CAS-No.	%	Hazard Symbol
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200 and the European Directive 91/155/EEC, and 93/112/EC.	N/A	N/A	N/A

Section 3. Health Hazard Identification	
Health Hazards: <i>(Acute and Chronic)</i>	Information pertaining to particular dangers for man and environment. When used and handled according to specifications, the product does not have harmful effects according to the information provided to us.

Section 4. First Aid Measures	
Emergency / First Aid Procedures:	<p>Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person.</p> <p>Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.</p> <p>Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.</p> <p>Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.</p>

Section 5. Fire and Explosion Hazard Data	
Flash Point (Method Used): N/A	Flammable Limits: LEL – N/A, UEL – N/A
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.	
Protective Equipment: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mood.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases may be produced.	

Section 6. Accidental Release Measures

Personal Precautions: Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.

Clean-up Methods: Absorb material, ventilate area, and wash spill site after material has been cleaned up.

Section 7. Handling and Storage

Handling: Protect against physical damage. Ensure good ventilation / exhaustion.

Storage: Requirements to be met by storerooms and receptacles: 2 - 30°C
Do not store together with oxidizing agents. Store in cool, dry conditions in well sealed containers.

Other Precautions: No special measures required.

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring:

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

OSHA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

Personal Protective Equipment:

Keep away from food, beverages, and feed.
Wash hands before and after entering laboratory.

Breathing Equipment: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles.

Body Protection: Wear lab coat or other protective work clothing.

Section 9. Physical and Chemical Properties

Appearance: Clear, yellow to amber liquid.

Boiling Point: Not determined

Density: Not determined

Flash Point: Not determined

Melting Point: Not determined

Auto Igniting: Product is not self-igniting

Solubility in Water: Soluble

Danger of explosion: Product does not present an explosion hazard.

pH: Not determined

Solvent Content: Organic solvents – 0.0%

Solids Content: 100.0%

Section 10. Stability and Reactivity

Stability:	Unstable		
	Stable	X	Conditions to Avoid: No decomposition if used according to specifications.
Incompatibility (Materials to Avoid): Strong oxidizing agents.			
Hazardous Decomposition or Byproducts: N/A			
Hazardous Polymerization:	May Occur		
	Will Not Occur	X	No dangerous reactions known.

Section 11. Toxicological Information

LD/LC₅₀ values that are relevant: N/A
Carcinogenicity Classification: IARC (International Agency for Research on Cancer) - Not listed NTP (National Toxicology Program) - Not listed
Irritant: May cause irritation to eyes, skin, and mucous membranes.
Sensitization: No sensitizing effects known.
Subacute to chronic toxicity: NA
Additional toxicological information: NA

Section 12. Ecological Information

Ecotoxicity Tests: Generally not hazardous to water. The ecological effects have not been thoroughly investigated, but currently none have been identified.

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Smaller quantities can be disposed of with solid waste. RCRA Hazardous Waste: No Contact a licensed professional waste disposal service to dispose of this material if questions arise.
Container Information: Do not remove labels from containers until they have been cleaned.

Section 14. Transport Information

DOT Regulations: Not Regulated
Land Transport ADR/RID (cross-border): Not Regulated
Maritime Transport IMDG: Not Regulated
Marine Pollutant: No
Air Transport ICAO-TI and IATA-DGR: Not Regulated

Section 15. Regulatory Information

EU Regulations, Hazard Symbol(s): N/A
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Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Acumedia Manufacturers, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.