

ULTRA BIO-LOGICS INC.

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MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION:

PRODUCT NAME: **ULTRADYNE-A**

SECTION 2. COMPOSITIONAL INFORMATION:

Composition: Solution of Iodine, Citric Acid and Natural Surfactants

<u>Ingredients:</u>	<u>%</u>
Citric Acid	10%
Iodine (KI)	5%
Saponin	19%
Bal. Inert	34%

SECTION 3. PHYSICAL DATA

Appearance: Dark brown liquid	Solubility in Water: Complete
Odour: Mild iodine	Specific Gravity: 1.13
Boiling Point: 213 F	% Volatile: 65
Vapour Pressure: 24 mm. Hg.	Evaporation Rate: 1 (water=1)
Vapour Density: 1 (air=1)	PH: 1.7

SECTION 4. FIRE & EXPLOSION DATA

Flammability: Not flammable.
Extinguishing Media: Water, CO₂
Unusual Fire or Explosion Hazards: May omit toxic fumes of iodine and phosphorous oxides with high heat.

SECTION 5. HEALTH HAZARD DATA

Eye Effects: Corrosive to eye (undiluted)
Skin Effects: Irritating (undiluted) Not irritating in dilute solution
Acute Oral Toxicity: LD₅₀ (Rats) is greater than 9,400 mg/kg.
Acute Dermal Toxicity: LD₅₀ (Rats) is greater than 9,000 mg/kg.

EMERGENCY & FIRST AID PROCEDURES

Eye Contact: Flush with water and get medical attention.
Skin Contact: Flush with water; if irritation develops, get medical attention.
Ingestion: Promptly drink large quantities of milk, egg whites, gelation solution or water. Get medical attention immediately.

SECTION 6. SPECIAL PROTECTION INFORMATION

Protective Gloves: Recommended (rubber, PVC)
Eye Protection: Recommended (goggles or face shield)
Respiratory Protection: Not needed
Local Exhaust: Not needed
Other Equipment: Protective, acid proof clothing recommended.

SECTION 7. REACTIVITY DATA

Incompatible Materials: Reducing agents, alkalies, strong oxides, chlorinated products.

Stability: Product is stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products:

May give off iodine vapours and phosphorous oxides with high temperatures. There are no hazardous decomposition products under normal circumstances.

SECTION 8. SPILL OR LEAK PROCEDURES

Spill: Carefully neutralize acid with soda ash or Sodium bicarbonates. Neutralize iodine with sodium thiosulfate or sodium sulfite.

OR: Flood areas with large quantities of water; wash to sewer if in accordance with local, state and federal regulation.

SPECIAL INFORMATION

Storage Precautions:

Avoid contamination of food or feedstuff. Keep container closed when not in use. Do not store below 0 F or above 100 F for extended periods. Do not reuse containers. Triple rinse, puncture, and dispose of containers in a sanitary landfill or by incineration.

Disposal:

Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Signs & Symptoms of Exposure:

Prolonged absorption may produce "iodism" which is manifested by skin rash, running nose, headache and irritation of mucous membranes.

Medical Conditions Aggravated by Exposure:

None Known.

Primary Routes of Entry:

Serious exposures are seldom encountered in industry; iodine has low volatility in this product.

SECTION 9. WARRANTY

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