

Humco Holding Group, Inc.
7400 Alumax Drive
Texarkana, TX 75501
903-334-6200

Item# 0395-2775

STRONG IODINE SOLUTION (Lugol's)

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SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: Strong Iodine Solution (Lugol's)

SECTION II HAZARDOUS COMPONENTS

Component	Percent
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Iodine	5%
Potassium Iodide	10%

SECTION III PHYSICAL DATA

Boiling Point: 100°C

Melting Point: NA

Specific Gravity: (H₂O = 1) NA

Solubility: (In water) Complete (in all proportions)

Vapor Pressure: (mmHg) NA

Vapor Density: (Air=1) NA

Evaporation Rate (Butyl Acetate=1): NA

% Volatiles by Volume: NA

Appearance and Odor: Dark brown solution with characteristic iodine odor.

SECTION III A DEGREE OF HAZARD

Degree of Hazard

4 - Extreme	Flammability	0
3 - High	Health	3
2 - Moderate	Reactivity	0
1 - Slight		
0 - Insignificant		

SECTION IV FIRE AND EXPLOSION HAZARDS

Flash Point: NA

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unusual Fire and Explosion Hazards: Iodine is an oxidizing agent that will support combustion and can react with explosive violence when heated in combination with some materials. (See incompatibilities)

SECTION V HEALTH HAZARD DATA

Carcinogenicity: Not documented.

Health Hazards: Irritation of eyes and nose, lacrimation, headaches, tight chest, skin burns, cutaneous.

Signs & Symptoms of Exposure: **Skin and eyes:** Severe irritation or burns. **Ingestion:** may cause nausea, vomiting and loss of consciousness. **Inhalation:** Vapors may be irritating to skin, eyes & mucous membranes.

Medical Conditions Generally Aggravated by Exposure: None identified.

Routes of Entry: Inhalation, ingestion, eye contact, skin contact

First Aid Instructions for Accidental Exposure:

If on Skin: Immediately flush skin with plenty of water for at least 15 minutes.

If in Eyes: Immediately flush eyes with plenty of water for at least 15 minutes.

If Inhaled: Provide fresh air.

If Swallowed: **CALL A PHYSICIAN. Do Not** induce vomiting; if conscious, give water, milk, or Milk of Magnesia.

SECTION VI REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Reaction can be violent or explosive with acetaldehyde and acetylene.

Incompatibility: Incompatible with ammonia, with powder metals, alkali metals, and strong reducing agents. Ammonium hydroxide reacts to form iodides which are shock sensitive and explosive when dry.

SECTION VII

SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge: Wear self-contained breathing apparatus and full protective clothing. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material. Flush spill area with water.

SECTION VIII

STORAGE AND HANDLING PRECAUTIONS

Special Precautions: Keep container tightly closed. Protect container from physical damage. Avoid breathing vapors. Prevent prolonged eye and skin contact. Certain individuals may develop sensitization to iodine.

SECTION IX

CONTROL MEASURES

Respiratory Protection: For emergency conditions use and approved self-contained respirator.

Protective Gloves: Rubber gloves.

Ventilation: Use both local and mechanical (general) exhaust to meet 0.1 ppm ceiling limit.

Other Protective Equipment: Safety goggles and/or full facepiece.

Work/Hygienic Practices: Good personal hygiene and wash hands before eating, drinking, or smoking.