



Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177  
Emergency Number: (800) 255-3924

## Material Safety Data Sheet

### Section 1 – Chemical Product and Company Identification

Catalog Numbers: Part D of S25344  
Product Identity: Iodine Solution

**Chemical Family:** No Information Available  
**Synonyms:** Grams Iodine Stain  
**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291  
Emergency Contact Number (24hr): Chemtel (800) 255-3924

**Issue Date:** 2/4/12  
**Revision Date:** 02/19/12, 06/25/12, 07/09/12

### Section 2 – Hazard Identification

#### **Emergency Overview**

May irritate skin, eyes, and gastrointestinal tract. Wash areas of contact with water. Get medical attention.

**Appearance:** Dark brown liquid      **Odor:** Weak iodine odor

**Target Organs:** Eyes, skin, central nervous system, cardiovascular system, respiratory system.

#### **Potential Health Effects/ Routes of Exposure:**

**Eyes:** May cause irritation.

**Skin:** May cause slight irritation and stain the skin.

**Ingestion:** May cause nausea, diarrhea, vomiting, cramps.

**Inhalation:** May cause irritation.

**Chronic Effect / Carcinogenicity** None (IARC, NTP, OSHA)

**Aggravated Medical Conditions** No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

### Section 3 – Composition, Information on Ingredients

Potassium Iodide, CAS# 7681-11-0, <4% w/v  
Iodine, CAS# 7553-56-2, <2% w/v  
Water, purified, CAS# 7732-18-5, >94% w/v

### Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops.

**Ingestion:** Induce vomiting. Dilute with water or milk. Get medical assistance.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Notes to Physician** Treat symptomatically.

### Section 5 – Fire Fighting Measures

**Flash Point:** No Information Available      **Autoignition Temperature** No Information Available  
**Explosion Limits Upper** No Information Available      **Lower** No Information Available  
**Extinguishing Media:** Use any means suitable to extinguishing surrounding fire.  
**Unsuitable Extinguishing Media:** No information available  
**Fire & Explosion Hazards** Not considered to be a fire or explosion hazard.  
**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.  
**Hazardous Combustion Products:** No information Available  
**Sensitivity to mechanical impact** No information available.  
**Sensitivity to static discharge** No information available.  
**Specific Hazards Arising from the Chemical:** No Information Available  
**NFPA Rating:** (estimated) Health: 3; Flammable: 0; Reactivity: 1

## **Section 6 – Accidental Release Measures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean Up** Absorb with suitable material and treat as normal refuse. Liquid may be flushed to sewer. Solution may be neutralized with sodium thiosulfate until colorless, and then flushed to sewer. Always obey local regulations.

## **Section 7 – Handling and Storage**

**Handling:** Wash hands after handling. Avoid contact with skin and eyes.

**Storage:** Protect from freezing and physical damage.

## **Section 8 – Exposure Controls, Personal Protection**

Potassium Iodide, CAS# 7681-11-0, ACGIH TLV: NA, OSHA PEL: NA

Iodine, CAS# 7553-56-2, ACGIH TLV: 1mg/m<sup>3</sup>, OSHA PEL: 1mg/m<sup>3</sup>

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Local/general exhaust is recommended. Ensure eyewash and safety showers are available.

**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.

**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate.

## **Section 9 – Physical and Chemical Properties**

**Appearance/Physical State:** Dark brown liquid

**Odor:** Weak iodine odor

**Boiling Point:** Approx 100 C

**Melting Point:** Below 0 C

**Vapor Density:** No Information Available

**Evaporation Rate:** No Information Available

**pH:** No Information Available

**Flammability:** No Information Available

**Solubility:** Infinite

available

**Relative Density:** No Information Available

**% Volatility:** No Information Available

**Specific Gravity:** Approx 1-1.05

**Vapor Pressure:** No Information Available

**Flash Point:** No Information Available

**Coefficient of water/oil distribution:** Not Available

**Odor Threshold:** Not Available

**Decomposition Temperature:** No Information Available

**Partition Coefficient n-octanol/water:** No data

**Molecular Weight:** No Information Available

## **Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials:** Active metals, powdered aluminum, acetylene, acetylaldehyde, ammonia, strong oxidizing agents.

**Conditions to Avoid:** No Information Available

**Hazardous Decomposition Products:** Emits irritating fumes and smoke, iodine vapors, and iodide.

