

Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177

Emergency Number: (800) 255-3924

Material Safety Data Sheet

<u>Section 1 – Chemical Product and Company Identification</u>

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

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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

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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 lodine, CAS# 7553-56-2, ACGIH TLV: 1mg/m3, OSHA PEL: 1mg/m3 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 % Volatility: No Information Available **Boiling Point:** Approx 100 C Specific Gravity: Approx 1-1.05

Melting Point: Below 0 C Vapor Pressure: No Information Available Vapor Density: No Information Available Flash Point: No Information Available

Evaporation Rate: No Information Available Coefficient of water/oil distribution: Not Available

pH: No Information Available Odor Threshold: Not Available

Flammability: No Information Available **Decomposition Temperature:** No Information Available Solubility: Infinite

Partition Coefficient n-octanol/water: No data

available Relative Density: No Information Available 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.

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2 LD50 orl-rat: 14g/kg (Iodine) LC50 inhalation-rat: NA

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

Chronic Exposure

Carcinogenicity No information available
Sensitization No information available.
Mutagenic Effects No information available.
Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No information available.

Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: No Information Available.

Persistence and Degradability: No Information Available Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

Section 13 - Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Dilute with water and neutralize with sodium thiosulfate until colorless. Then dilute the resulting solution with dilute hydrochloric acid or sodium carbonate solution, and decant to drain with large quantities of water. All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.

Canada DSL: These chemicals are listed on Canada's DSL list.

TSCA: The components of this solution are listed on the TSCA Inventory

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: No Information Available

WHMIS: No Information Available

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 - Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his/her own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.