

# MATERIAL SAFETY DATA SHEET

(MSDS Sheet is in compliance with 29CFR 1910. 1200)

**Manufacturer:**  
IMEB INC.  
170 Vallecitos De Oro, Suite A  
San Marcos, CA 92069  
Chemtec: 800-424-9300

**Date Prepared:** 02/05/1999  
**CAT #:** K7028-2

**Product Trade name:** Gram's Iodine Solution  
**Product Description:** Brown And Brenn Gram's Traditional Stain Kit

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## Section I Hazardous Composition Information

Hazardous Components	CAS No.	OSHA PEL	ACGIH / TLV	TWA
Iodine	7553-56-2	n/a	1 mg/m3	n/a
Potassium Iodide	7681-11-0	n/a	n/a	3mg/m3

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## Section II Physical and Chemical Characteristics

**Specific Gravity:** 1.4 (Water = 1.0)@ 77 F  
**Solubility in Water:** Soluble  
**SP. Gravity of Vapor:** n/a (Air = 1.0 @ 60 –90 Degrees F)  
**Evaporation Rate (n-Bu Acetate = 1):** n/a  
**Vapor Pressure:** n/a  
**Viscosity:** n/a  
**Boiling Point:** 89 C  
**Color:** Brown  
**Odor:** Synthetic  
**State:** Liquid

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## Section III Stability and Reactivity

**Stability:** Stable  
**Conditions to Avoid:** n/a  
**Hazardous Polymerization:** Will not occur  
**Incompatible Materials:** Reactive with combustible materials, organic materials and metals.  
**Hazardous Decomposition Products:** Products of biodegradation are Carbon Monoxide and Bromine Dioxide.

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## Section IV Fire and Explosion Data

**Flashpoint:** Non-Flammable  
**Flammable Limits:** LEL: n/a UEL: n/a  
**Autoignition Temperature:** n/a  
**Extinguishing Media:** Foam, Dry Chemical, Water Spray, CO2, Sand  
**Special Fire Fighting Procedure:** n/a  
**Decomposition Products Under Fire Conditions:** Vapors developed under fire conditions may be toxic.

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## Section V Health Hazard Data

**Acute Health Effects:**

**Eye Contact:** Contact with eyes may cause irritation.  
**Skin Contact:** No skin irritation hazard identified from available data.  
**Inhalation:** Inhalation may irritate lungs and mucous membranes.

**Ingestion:** May be toxic by ingestion.

**Chronic Health Effects:**

**Eye Contact:** Prolonged exposure may cause eye sensitization.

**Skin Contact:** Prolonged exposure may cause irritation and sensitization to skin.

**Inhalation:** Repeated inhalation may cause severe lung irritation by accumulation.

**Ingestion:** Repeated exposure may cause general deterioration of health and toxic accumulation.

**Medical Conditions Aggravated by Exposure:** n/a

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**Section VI                      Emergency First Aid Procedures**

**Eye Contact:** Flush eye with copious amounts of water or saline solution. Seek Medical Attention.

**Skin Contact:** Wash contact area with soap and water. Seek medical attention if symptoms persist.

**Inhalation:** Remove employee to well ventilated area. Seek medical attention if employee is unconscious.

**Ingestion:** Induce vomiting if person is "Only" conscious. Seek medical attention.

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**Section VII                      Spill, Disposal and Storage Methods**

**Accidental Spill:** Immediately inform employees. Wear gloves and goggles and absorb spill with absorbent material such as sand or paper towel. Spill area can be washed with soap and water. Do not use detergents that contain bleach or chlorine.

**Waste Disposal:** All waste must be disposed in accordance to local, state, and federal regulations.

**Storage:** Store in original container or LDPP, HDPE or any plastic container. Do not use metal containers. Store at room temperature.

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**Section VIII                      Personal Protection and Handling**

**Ventilation:** Work in well ventilated area.

**Respiratory Protection:** No special respiratory protection is recommended under anticipated normal use.

**Eye Protection:** Wear goggles or splash shield.

**Protective Gloves:** Wear latex gloves or impermeable protective gloves.

**Other Protective Clothing or Equipment:** No special equipment is required under anticipated conditions of normal use beyond that needed for normal comfort control.

**Hygienic Practices:** Wash hands before meals or breaks.

**Federal and State Regulations:** n/a

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