

# Material Safety Data Sheet

**Identity** ( As used on Label and List)

**GRAM'S IODINE #26054-05**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacture's Name  
ELECTRON MICROSCOPY SCIENCES

Emergency Telephone Number  
800-424-9300 (Chemtrec)

Address (Number, Street, City, State and ZIP Code)  
P.O. BOX 550

Telephone Number for Information  
TEL. 215-412-8400

1560 INDUSTRY ROAD

Date Prepared  
REVISED 07/19/2008

HATFIELD, PA 19440

Signature of Preparer (optional)

**Section II - Hazardous Ingredients / Identity Information**

Hazardous Components ( Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%optional
1. <b>POTASSIUM IODIDE</b> CAS# 7681-11-0 RTECS#TT 2975000				0.67%
2. <b>IODINE</b> CAS# 7553-56-2 RTECS# NN1575000 OSHA PEL: C1m6/m <sup>3</sup> .co ppm ACGIH STEL: c1.0.g/m <sup>3</sup> ; co.1ppm				0.33%

**WARNING! POISON!**

**HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. CAUSES IRRITATION!**

Protective equipment for laboratory bench should be chosen using professional judgement based on the size and type of reaction to test to be conducted and the available ventilation, with overriding consideration to minimize clothing. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Keep in tightly closed container. Loosen closure cautiously. Use with adequate ventilation. Wash thoroughly after handling. In case of spill, flush spill area with water.

3. **WATER** CAS# 7732-18-5 balance

**Section III - Physical / Chemical Characteristics**

Boiling Point (water)	100°C	Specific Gravity ( H <sub>2</sub> O = 1)	1.0
Vapor Pressure (mm Hg.) (water)	14	Melting Point	0°C
Vapor Density (AIR = 1) (water)	0.7	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water APPRECIABLE (MORE THAN 10%)

Appearance and Odor REDDISH-BROWN SOLUTION; ODOR OF IODINE

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used) Non Flammable	Flammable Limits N/A	LEL N/A	UEL N/A
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Extinguishing Media USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Special Fire Fighting Procedures FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN POSITIVE PRESSURE MODE.

Unusual Fire and Explosion Hazards MAY PRODUCE TOXIC AND CORROSIVE FUMES OF IODINE. IODINE IS CORROSIVE TO METALS AND TO ALL BODY TISSUES.

**Section V - Reactivity Data**

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid EXCESSIVE TEMPERATURE OR HEAT
	Stable	<input checked="" type="checkbox"/>	

Incompatibility ( Materials to Avoid)  
FLAME, HEAT AND SPARKS – CONTACT WITH GASEOUS AMMONIA

Hazardous Decomposition or Byproducts  
IODINE

Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid N/A
	May Not Occur	<input checked="" type="checkbox"/>	

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation ? YES	Skin? YES	Ingestion? YES
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Health Hazards (Acute and Chronic)  
WARNING! POISON! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN! CAUSES IRRITATION! MAY CAUSE DELAYED LUNG INJURY. INGESTION CAUSES ABDOMINAL PAIN, VOMITING AND DIARRHEA. IN SERVE CASES PURGING, EXCESSIVE THIRST, AND CIRCULATORY FAILURE MAY DEVELOP.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
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Signs And Symptoms of Exposure  
CONTACT AS FUMES OR SOLUTION IS INTENSELY IRRITATING TO EYES, SKIN AND MUCOUS MEMBRANES. INGESTION: ABDOMINAL PAIN, VOMITING AND DIARRHEA.

Medical Conditions  
Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures  
CALL A PHYSICIAN! IF SWALLOWED, IF CONSCIOUS, GIVE ONE OR TWO GLASSES OF MILK, FOLLOWED BY A STARCH, FLOUR OR EGG WHITE AS A WATER SOLUTION. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. FLUSH SKIN WITH WATER.

**Section VII - Precautions For Safe Handling And Use**

Steps to Be Taken in Case Material is Released or Spilled  
WEAR SUITABLE PROTECTIVE CLOTHING. TAKE UP WITH SAND OR NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL. FLUSH SPILL AREA WITH A 5-10% SODIUM THIOSULFATE SOLUTION. NEUTRALIZING AGENT: SODA ASH, SODIUM THIOSULFATE.

Waste Disposal Method  
IN ACCORDANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.

Precautions to be taken in handling and storing  
KEEP CONTAINER TIGHTLY SEALED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. REMOVE ALL CONTAMINATED CLOTHING AND SHOES. WASH BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.

Other Precautions READ LABEL, DO NOT WEAR CONTACT LENSES WHEN WORKING WITH CHEMICALS. AVOID ALL ROUTES OF EXPOSURE.

**Section VIII - Control Measures**

Respiratory Protection (Specify Type) VENTILATION HOOD		
Ventilation	Local Exhaust FUME HOOD	Special
	Mechanical (General)	Other

Protective Gloves RUBBER OR NEOPRENE	Eye Protection FACE SHIELD/SAFETY GOGGLES
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Other Protective Clothing or Equipment  
APPROVED WORK CLOTHES, EYE WASH, SAFETY SHOWER, SMOCK, APRON.

Work/Hygienic Practices  
USE CARE WHEN HANDLING. AVOID EXPOSURE!