

MATERIAL SAFETY DATA SHEET

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MSDS No. 9704604 9704606
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Effective Date: April 1, 2004

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Iodine-Potassium Iodide Solution	416-984-3000
Chemical Synonyms	I/KI; Starch test; Gram's iodine	NFPA 
Formula	Mixture.	HAZARD RATING
CAS No.	Mixture.	WHMIS
		Minimal 0 Slight 1 Moderate 2 Serious 3 Severe 4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Iodine: CAS No. 7553-56-2	2%	0.1 ppm; 1 mg/m ³
Potassium Iodide: CAS No. 7681-11-0	3%	N/A
Water: CAS No. 7732-18-5	95%	N/A

WARNING! CORROSIVE!

SECTION III PHYSICAL DATA

Melting Point (°C)	0°C	Specific Gravity (H ₂ O = 1)	1.0
Boiling Point (°C)	100°C	Percent Volatile by Volume (%)	95%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	< 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Soluble.		
Appearance & Odor	Dark amber liquid; Iodine odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

Flammability and Explosion Hazards

Fire may produce irritating, corrosive and/or toxic fumes.

TDG Not controlled under TDG.

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SECTION V REACTIVITY DATA

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Chemical Stability	Yes	X	If no. under what conditions?
	No		
Incompatible with Other products	Yes	X	Ammonia solutions, acetaldehyde, sodium azide, sodium hydride.
	No		
Hazardous Decomposition Products	Free iodine.		
Reactive under what conditions	Contact with gaseous ammonia forms explosive nitrogen iodide.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation. Skin and eye contact.
TLV	There are no TWA established by ACGIH 2001 for this mixture.
Toxicity for animals	N/A
Chronic effects on humans	There is no known effect from chronic exposure to this product. Target organs: None known.
Acute effects on humans	Harmful if inhaled or swallowed. Contact may cause burns to the skin and eyes.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container in a cool, well ventilated place. Keep away from heat, incompatible materials and sources of ignition and open flames.
Precautions	Avoid contact with skin and eyes. Do not breathe vapors or spray. Use with adequate ventilation. Do not ingest. If ingested, seek immediate medical attention.
Spill or leak	Absorb with an inert dry material and place in an appropriate waste disposal container.
Protective Clothing	Gloves, goggles, faceshield, lab coat, dust respirator, safety shower, emergency eye wash station.

SECTION VIII FIRST AID MEASURES

Specific first aid measures

Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.

SECTION IX PREPARATION OF THE MSDS

Rev. No. 5 Date April 1, 2004 Approved Michael Raszeja