Material Safety Data Sheet

Section 1. Pro	oduct and Company Identification			
Product Name	Iodine Solution, 0.1000N	Product Co	ode IX0	130A
Manufacturer	EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.			
For More Informati	on Call	In Case of	Emergency	v Call
856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM			666 CANL	ITREC (USA) JTEC (Canada) s/Week
Synonym	None.			
Material Uses	Laboratory Reagent			
Chemical Family	Solution.			
Section 2. Co	mposition and Information on Ingredients			
Component			CAS #	% by Weight
Potassium Iodide Iodine Water			7681-11-0 7553-56-2 7732-18-5	4 <1.5 >95
Section 3. Ha	zards Identification			
Physical State and Appearance	Liquid.			
Emergency Overvie	W CAUTION ! CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWEE MAY CAUSE EYE BURNS. MAY CAUSE RESPIRATORY TRACT IRRITATION			
Routes of Entry	Eye contact. Inhalation. Ingestion.			
Potential Acute Hea	lth Effects			
	<i>Eyes</i> Hazardous in case of eye contact (corrosive, irritant eye is characterized by redness, watering, and itching)		e burns. In	flammation of the
	<i>Skin</i> Hazardous in case of skin contact (irritant). Skin inf scaling, reddening, or, occasionally, blistering.	lammation is	characteri	zed by itching,
Inh	alation May be hazardous in case of inhalation (lung irritant	t).		
In	gestion May be hazardous in case of ingestion.			
Potential Chronic H	ealth Effects			
Carcinogenic	Effects This material is not known to cause cancer in animals	or humans.		

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	Additional information See Toxicolog	ical Information (section 11)	
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known	n to aggravate medical condition.	
Section 4. First Ai	l Measures		
Eye Contact		In case of contact, immediately flush eyes with old water may be used. Get medical attention	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.		
Inhalation	If inhaled, remove to fresh air. If not breathing give oxygen. Get medical attention.	g, give artificial respiration. If breathing is difficult	
Ingestion		o so by medical personnel. Never give anything e quantities of this material are swallowed, call a such as a collar, tie, belt or waistband.	
Section 5. Fire Fig	hting Measures		
Flammability of the Product	Non-flammable.		
Auto-ignition Temperature	Not applicable.		
Flash Points	Not applicable.		
Flammable Limits	Not applicable.		
Products of Combustion	Not applicable.		
Fire Hazards in Presence of Various Substances	Not applicable.		
Explosion Hazards in	Risks of explosion of the product in presence of station	c discharge: No.	
Presence of Various Substances	Risks of explosion of the product in presence of mech	nanical impact: No.	
Fire Fighting Media and Instructions	Not applicable.		
Protective Clothing (Fire)	Wear suitable protective clothing.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		
Section 6. Accide	tal Release Measures		
Small Spill and Leak	Dilute with water and mop up, or absorb with waste disposal container.	an inert dry material and place in an appropriate	
Large Spill and Leak		ed material in an appropriate waste disposal. Be incentration level above TLV. Check TLV on the	
Spill Kit Information	No specific spill kit required for this product.		

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Section 7. Handlin Handling	ng and Storage	
Handling		
	Avoid contact with eyes, skin and clothing. Do not ingest. Avoi mists. Do not get in eyes. Use only with adequate ventilation. Wa	
Storage	Keep container tightly closed. Keep container in a cool, well-ventile	ated area.
Section 8. Exposu	re Controls/Personal Protection	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the vapors below their respective occupational exposure limits. Ensur- safety showers are proximal to the work-station location.	
Personal Protection	s Splash goggles.	
	y Lab coat.	
-	 Vapor respirator. Be sure to use an approved/certified respirator o appropriate respirator when ventilation is inadequate. 	r equivalent. Wear
Hand	s Gloves.	
Fee	t Not applicable.	
Protective Clothing (Pictograms)		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. apparatus should be used to avoid inhalation of the product. So might not be sufficient; consult a specialist BEFORE handling this p	uggested protective clothing
Product Name Potassium Iodide	Exposure Limits Not available.	
lodine	ACGIH (United States, 1994). CEIL: 1 mg/m ³ OSHA (United States, 1989). CEIL: 1 mg/m ³ BAUA (Germany, 1997). Skin MAK: 1 mg/m ³ Spitzenbegrenzung: 1 mg/m ³ Arbeidsinspectie (Netherlands, 1999). TGG 8 uur: 1 mg/m ³ MAC-C: 1 mg/m ³ DK-Arbejdstylsinet (Denmark, 1996). GV: 1 mg/m ³ Loftværdi: 1 mg/m ³ INRS (France, 1996). VLE: 1 mg/m ³ VLE: 0.1 ppm National Authority for Occupational Safety/Hea STEL: 1 mg/m ³ STEL: 0.1 ppm EH40-OES (United Kingdom (UK), 1997). STEL: 1.1 mg/m ³ STEL: 0.1 ppm ACGIH (United States, 1994). CEIL: 1 mg/m ³ CEIL: 0.1 ppm NIOSH REL (United States, 1994). CEIL: 1 mg/m ³	alth (Ireland, 1999).

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Water	OSHA Final Rule (United States, 1989). CEIL: 1 mg/m ³ CEIL: 0.1 ppm Not available.	
Section 9. Physica	al and Chemical Properties	
Odor	lodine-like	
Color	Brown.	
Physical State and Appearance	Liquid.	
Molecular Weight	Not applicable.	
Molecular Formula	Not applicable.	
рН	Not available.	
Boiling/Condensation Point	The lowest known value is 99.9°C (211.8°F) (Water).	
Melting/Freezing Point	May start to solidify at -0.1°C (31.8°F) based on data for: Water.	
Specific Gravity	Weighted average: 3.47 (Water = 1)	
Vapor Pressure	Not available.	
Vapor Density	Not available.	
Odor Threshold	Not available.	
Evaporation Rate	0.36 (Water) compared to (n-BUTYL ACETATE=1)	
LogKow	Not available.	
Solubility	Soluble in water.	
Section 10. Stabili	ity and Reactivity	
Stability and Reactivity	The product is stable.	
Conditions of Instability	Not available.	
Incompatibility with Various Substances Rem/Incompatibility	Reactive with reducing agents, combustible materials. Slightly reactive to reactive with oxidizing agents. Avoid Heat	
Hazardous Decomposition Products	HI, I	

Hazardous Polymerization Will not occur.

Section 11. Tox	cicological Information		
RTECS Number:	Potassium Iodide	TT2975000	
	lodine	NN1575000	
	Water	ZC0110000	
Toxicity	Acute oral toxicity (LD ₅₀): 14000	mg/kg [Rat]. (Iodine).	
Chronic Effects on Humans	Not available.		

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Acute Effects on Humans	characterized inflammation	I by redness, watering, and itching. Haza	May cause burns. Inflammation of the eye is rdous in case of skin contact (irritant). Skin lening, or, occasionally, blistering. May be azardous in case of ingestion.
Special Remarks on Other Toxic Effects on Humans	r may be irr	TATING ON CONTACT WITH MUCOU	S MEMBRANES.
Synergetic Products (Toxicologically)	Not available		
Irritancy	Draize Test:	Not available.	
Sensitization	Not available		

Carcinogenic Effects	This material is not known to cause cancer in animals or humans.
Toxicity to Reproductive System	Not available.
Teratogenic Effects	Not available.
Mutagenic Effects	Not available.

Section 12. Ecological Information

Not available.

Not available.

Ecotoxicity BOD5 and COD

Toxicity of the Products of The products of degradation are less toxic than the product itself.

Biodegradation

Section 13. Dispo	osal Considerations		
EPA Waste Number	D002		
Treatment	Specified technology- Contact your local permitted waste disposal site (TSD) for permissible treatments sites. ALWAYS CONTACT PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.		
Section 14. Tran	sport Information		
DOT Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.		
TDG Classification	Not available.		
IMO/IMDG Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.		
ICAO/IATA Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.		
Section 15. Regu	Ilatory Information		
U.S. Federal Regulations	TSCA 8(b) inventory: Potassium Iodide; Iodine; Water SARA 302/304/311/312 extremely hazardous substances: No products were found.		

U.S. Federal Regulations	I SCA 8(b) Inventory: Potassium Iodide; Iodine; Water
	SARA 302/304/311/312 extremely hazardous substances: No products were found.
	SARA 302/304 emergency planning and notification: No products were found.
	SARA 302/304/311/312 hazardous chemicals: Potassium Iodide; Iodine
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Potassium lodide:
	Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Iodine: Immediate (Acute)
	Health Hazard, Delayed (Chronic) Health Hazard
	SARA 313 toxic chemical notification and release reporting: No products were found.
	Clean Water Act (CWA) 307: No products were found.

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	Clean Water Act (CWA) 311: No products were found.	
	Clean air act (CAA) 112 accidental release prevention: No products were	
	Clean air act (CAA) 112 regulated flammable substances: No products we	
	Clean air act (CAA) 112 regulated toxic substances: No products were fou	na.
WHMIS (Canada)	Class D-2B: Material causing other toxic effects (TOXIC).	
	CEPA DSL: Potassium Iodide; Iodine; Water	
	This product has been classifed in accordance with the hazard criteria of t Regulations and the MSDS contains all required information.	he Controlled Produc
International Regulations		
EINECS	Potassium Iodide 231-659-4	
	lodine 231-442-4	
	Water 231-791-2	
DSCL (EEC)	This product is not classified according to the EU regulations.	
International Lists	Australia (NICNAS): Potassium Iodide; Iodine; Water	
	Japan (MITI): Potassium Iodide; Water	
	Korea (TCCL): Potassium Iodide; Iodine; Water	
	Philippines (RA6969): Potassium Iodide; Iodine; Water China: No products were found.	
State Regulations	Pennsylvania RTK: Iodine: (generic environmental hazard)	
	Massachusetts RTK: Iodine	
	New Jersey: Iodine Solution, 0.1000N	
	California prop. 65: No products were found.	
Section 16. Other	Information	
	National Fire	
		Fire Hazard
	Association (U.S.A.)	Reactivity
		Specific Hazard

Notice to Reader

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