T & S Educational/Kemtec Science

MATERIAL SAFETY DATA SHEET

SECTIO	NI	NAME		24 HOU	R EMERG	ENCY A	SSISTANCE	
Product	Lugol's Iodin	Lugol's Iodine Solution			CHEMTREC Health 3			
Chemical Synonyms	Iodine-Iodide Solution							
Formula	Mixture.			_ NFPA Reactivity 1				
Unit Size	up to 3.785 l	up to 3.785 Lt.			HAZARD RATING HMIS *			
C.A.S. No.	Mixture.			0	1	2	3 4	
SECTIO		INGREDIE	ENTS OF	MIXTUR	<u>=</u> \$	TI	V Units	
	Component(
	AS No. 7553-56				4.1%	STEL: C 0.1 ppm None established.		
	iodide: (CAS N		6.3%					
	AS No. 7732-18			89.6%	None established.			
		HARMFUL IF INHA		ALLOWED.	CAUSES BU	IRNS TO S	SKIN AND EYES	
SECTIO		PHYSICA		Specific Corr 1	$(H \cap = 1)$			
Melting Poir	. ,	May freeze at 0°C (32°F)		Specific Gravity (H ₂ O = 1) Percent Volatile		1.0		
Boiling Point (°F)		Approx. 100°C (212°F)		by Volume (%) Evaporation Rate		89.6%		
Vapor Pressure (mm Hg)		14 (water)		(Water =1)		< 1.		
Vapor Dens		0.7 (water)						
Solubility in Water Appearance & Odor		Complete.						
		FIRE AND			ZARD D	ATA		
SECTIO		and the second second second at weak of the second is started by	and the second second second second			Lower	Upper	
		mmable	Flammable I % by Volum		N/A			
SECTIO Flash Point (Method Used Extinguisher Media) Non-flar	mmable. / media suitable for ext	% by Volum	e	N/A			
Flash Point (Method Used Extinguisher Media) Non-flar Use any TREFIGHTIN	v media suitable for ext G In fire co	% by Volum	pporting fire.	1SHA-approv	ved self-co		
Flash Point (Method Used Extinguisher Media SPECIAL F) Non-flar Use any TREFIGHTIN	v media suitable for ext G In fire co breathin	% by Volum	pporting fire.	1SHA-approv	ved self-co		
Flash Point (Method Used Extinguisher Media SPECIAL F PROCEDU UNUSUAL) Non-flar Use any IREFIGHTIN RES	v media suitable for ext G In fire co breathin amounts	% by Volum inguishing su ponditions, wea g apparatus a	pporting fire.	1SHA-approv	ved self-co		

SECTION V HEALTH HAZARD DATA Threshold Limited Value

None established for this solution. (ACGIH 2001).

Effects of Overexposure Contact as fumes or solution is intensely irritating to eyes, skin and mucous membranes. May cause delayed lung injury. <u>INGESTION:</u> Of large quantities causes abdominal pain, vomiting and diarrhea. In severe cases purging, excessive thirst and circulatory failure may develop. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give

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anything by mouth to an unconscious person. <u>EYES:</u> Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. <u>SKIN</u>: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. <u>INHALATION</u>: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTIO	N VI		R	EACTIVITY	/ DATA	V				
Stability	Unstable			Conditions to Avoid						
Stability	Stal	ble	Х	Excessive temperature of					neat.	
(Metaviole to Avoid) prever				ct of gaseous ammonia or its solutions with free iodine should be avoided to nt the formation of the explosive "nitrogen iodide". Acetaldehyde, Sodium azide, n hydride.						
Hazardou Decompo		ı Prod	lucts	Free iodi	ne.					
Hazardous	Hazardous Polymerization				Conditions to Avoid					
May Occur Will Not Occur				Not applicable.						
	X Not applicable.									
SECTIO	N VI		S	PILL OR L	EAK P	ROCEL	DURES			
Waste Dis		I Mat	had Dis	Sodiur	n thiosulfa	te solution	•	n floor or spill area n eral, State or Local law		
Work in a v with a large been disso SECTIO Respiration P	ventilatio e volum lved an NVI rotectio	on hood le of wa ld soluti n	and wearing ter. Slowly on is colorle Sone should	ng proper safet add, while stirr ess. Flush to se PECIAL P	y equipme ing soda a ewer with o	nt, collect sh or sodiu copious am	waste iodi um thiosul nounts of v		er. Cover line has	
(Specify Type) Ventilatio	1	Local Exhaust		Recommended.		Special	No.		et Million traditional design of the Marco and an an an an	
	n ⊢	Mechanical (General				Other		No.		
Protective	e Glov	ves	F	Rubber.	E	ye Prote	ection	Chemical safet	y goggles.	
Other Protectiv Equipment	ve	Faceshield, mock, apron, eye wash station, ventilation hood, proper gloves.								
SECTIO	NIX		ક	PECIAL P	RECAL	ITIONS				
Precautions in Handling Keep container tigh	s to be & Sto	ring		tore in a cool, d	ry, well-ve	ntilated are	ea. Remo	ve all contaminated hly after handling.	d clothing	
Other Preca	autions	S Read For la	label on containe boratory use only	er before using. Do no y. Not for drug, food or	t wear contact I household use	enses when wo . Keep out of re	rking with chen each of childrei	nicals. n.		
		Avo		vith skin,eyes a				act with skin will lea	ave	
Revision N	lo. 1	2 Da	ite 01/11	1/07 Approv	/ed	James A	Bertsch	Chemical Safety Coordinator	JAB	
them and must mal	ke indepen	dent deterr	ninations of suita	ranty of any kind. Emp bility and completenes andards. Printed on re	s of information	se this informat from all source	tion only as a s is to assure pro	upplement to other informati oper use of these materials a	ion gathered by and the safety and	

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

NON-REGULATED.

D.O.T.