

MATERIAL SAFETY DATA SHEET

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MSDS No.: IX0190 Effective Date: January 11, 2007 SECTION V

SECTIO	NI	NAME		24 HOUR EMERGENCY ASSISTANCE							
Product	Iodine Soluti	on, Tincture									
Chemical Synonyms	Tincture Of I	odine		$\frac{3}{3}$	800-42	4-9300 226-6177	Health Fire	3			
Formula	Mixture.						Reactivi	-			
Unit Size	up to 3.785	Lt.		- NFP	A D RATING		HM				
C.A.S. No.	Mixture.				SLIGHT MOD	DERATE SERIOUS SEVERE					
SECTIO		INGREDIE	NTS OF	-	ES		-				
	Component(%	Т	LV Unit	S			
	ohol (denatured CAS No. 7732-	I): (CAS No. 64-17-5)*		~ 78.0% 10.98%	1000 ppm; 1880 mg/m3 None established.						
Iodine: (CAS No. 7553-			7.39% 5.28%	C 0.1 ppm; 1 mg/m3 None established.						
DANGE	R! FLAMMABL	E! CORROSIVE!									
MAY BE	FATAL IF SW	ALLOWED. HARMFUL	IF INHALED	D. CAUSES	BURNS.						
SECTIO	N III	PHYSICAL	DATA								
Melting Poir	nt (°F)	Freezing point -80°C ((-112°F)	Specific Gravity $(H_2O = 1)$		Approx. 0.79 (20/20°C)					
Boiling Point (°F)		74.5 to 79.5°C (163-174°F)		Percent Volatile by Volume (%)		81%					
Vapor Pressure (mm Hg)		Ca 50 @ 20°C (Ethyl a	alcohol)	Evaporation Rat (Ether =1)	e	> 1					
Vapor Density (Air=1)		Ca 1.5 (Ethyl alcohol)									
Solubility in Water		Complete.	Complete.								
Appearance	e & Odor	Deep-amber color liqu	iid; mild alcol	nol characte	ristic odor.						
SECTIO	N IV	FIRE AND	EXPLOS	ION HA	ZARD D	ATA					
Flash Point (Method Used)	70°F (21	°C) TCC	Flammable Li % by Volume		bhol 4.0% (V)			Jpper .0% (V)			
Extinguisher Media		ay; carbon dioxide (CO_2); dry chemical.									
SPECIAL F PROCEDU	IREFIGHTIN RES	In fire cond	itions, wear a			d self-cor	ntained br	eathing			
(2004 EMEI	RGENCY RES	PONSE GUIDEBOOK, R	·		-	27)					
UNUSUAL		Fire or exce	essive heat m odine vapor,	ay produce	hazardous d	ecompos					

all body tissues. Alcohol burns with a clear, almost invisible flame, especially hard to see in strong sunlight.

Denaturants:

Methyl alcohol: (CAS No. 67-56-1)...TWA: 200 ppm; STEL: 250 ppm, Methyl isobutyl ketone: (CAS No. 108-10-1)...TWA: 50 ppm; 75 ppm, Isopropyl alcohol: (CAS No. 67-63-0)...TWA: (400 ppm); STEL: (500 ppm)

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

Threshold	d Limit	ed V	alue	Etha	anol TWA: 1000 pp					
Effects of	f Overe	xpo	sure		n; 205 mg/m ³ . Itact as lodine fume:	e or o	olution in	intensol		kin and
mucous m hazards.	embranes NGESTIC	s. Ma DN: N	y cause May caus	delay e abo	ved lung injury. Exe dominal pain, vomiti y failure may develo	ercise ing, d	appropri iarrhea, c	ate proce dizziness,	dures to minimize p drowsiness. In sev	otential rere cases
				INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give						
with water SKIN: Re	for at lea move cor tention. <u>I</u>	st 15 ntamir NHAL	minutes, nated clot LATION:	ous p lifting thing Rer	person. <u>EYES:</u> Che g upper and lower e . Flush thoroughly move to fresh air. If	eck fo eyelid with r	or and rer s occasio nild soap	nove cont nally. Ge and wate	tact lenses. Flush t at immediate medica r. If irritation occur	horoughly al attention. s, get
SECTIC	DN VI			RE	ACTIVITY DA	ΛTA				
Stability	Unsta	ble	e		Conditions to Avoid Excessive temperature or heat.					oot
	Stab	le	Х					EXCESSI	le temperature or n	eal.
(Meterials to Avoid) be av				avoic	ng oxidizers. Contact of gaseous ammonia or its solutions with iodine should voided to prevent the formation of the explosive "nitrogen iodide". Sodium e, Sodium hydride.					
Hazardou Decompo		Proc	ducts		When heated, e	emits	toxic and	corrosive	e fumes of iodine.	
Hazardous	s Polym	eriza	tion	C	Conditions to Avoid					
Мау Осси	ur V	Vill N	ot Occu	r	Not applicable.					
			Х							
SECTIC	DN VII			SP	ILL OR LEAK	(PF		DURES		
Steps to I material i				lled	Absorb spi	ill in v conta	ermiculit	e, sand, e lisposal.	ovide adequate ven earth, paper towel a Wash spill area with	nd place in
Waste Dis	sposal	Met			arge, treatment, or disp e disposal guidelines a					
					oose of in an approvention approvention of the second second second second second second second second second s					oved
SECTIC	N VIII			SP	ECIAL PROT	EC	FION I	NFOR	MATION	
Respiration P	espiration Protection For norma		al lat	I laboratory use at room temperature, none should be needed. If needed, bray work in ventilation hood or wear an OSHA-approved respirator.						
Ventilatio	1.0		chaust		Recommended		Special		No.	-
	Me	echani	ical (Gene	ral)	Recommended	1. T	Other		No.	
Protective Gloves			Rubber.		Eye Protection		ection	Chemical safety glasses		
Other Protecti Equipment	ive	Sn	Smock, apron, eye wash station, goggles, ventilation hood, proper gloves.							
SECTIC	DN IX			SP	ECIAL PREC	AU	FIONS	3		
Precaution in Handling	g & Stori	ng			re in a cool, dry, wel sh thoroughly after h			ea, away	from any fire hazard	ls.
· · ·	-				efore using. Do not wear con		0	rking with cho-	micals	
Other Preca	autions	For la	boratory use	only. N	vapor. Use with ade showing the second secon	^{ld use.} equat	Keep out of r	each of childre	micais. m.	
Devisit 1	1								Chemical Safety	
Revision N	lo. 11	Da	ite 01	1/11/0	07 Approved		James A.	. Bertsch	Coordinator	JAB

HEALTH HAZARD DATA

IX0190

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