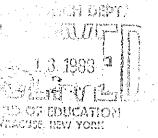
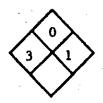


## CLEAN-ALL POOL CENTER

838 Erie Blvd. West 8YRACUSE, NY 13204 (315) 472-9189

ADAPTED FROM USDL FORM NO. LSB - 808-4





MATERIAL SAFETY DATA SHEET

00009 @FPA Designation

			·			
Chlorine Blead	h #10/	ji sa wasa	<del></del>	PLANT CODE	MATERIAL CODE NO	
- OUTOTTHE DIGHT				EMERGENCY TE	L SEMANE NO	
CLEAN-ALL		- 17AT		EMENGENCY TE	LEPHONE NO.	
ADDRESS: INUMBER, STREET, CITY, STATE AND	ZIP CODE!					
CHEMICAL NAME AND SYNONYMS Chlorine			TRADE	Chlorine		
CHEMICAL FORMULA .	MOL.	MOL. WT.		USES		
Cl <sub>2</sub>	70.91 Wat		Water tre	er treatment; chemical syntheses		
	Phys	ical Prop	erties			
BOILING POINT (8 F)	-29.30	SPECIF	C GRAVITY (H	20-1) liquid @( 53-2 psis	1.47	
VAPOR PRESSURE (mmHg) @ 680F	4800	PERCEN BY VOL	IT VOLATILE		100%	
VAPOR DENSITY (AIR=1)	2.49	EVAPO	RATION RATE			
SOLUBILITY IN WATER @ 32°F	1.46%					
APPEARANCE AND ODOR Greenish-ye	llow liqu	id or g	as with pen	etrating odor		
	E: J E.	.1				
FLASH POINT METHOD	Fire and Exp	MMABLE LI		<u> </u>		
none <sup>0</sup> F	UEL		LEL	AUTOIGNITION TE	MP. none OF	
EXTINGUISHING MEDIA Use agent suit	able for	surroun	ding fire.			
SPECIAL FIRE FIGHTING PROCEDURES C	ool affec	ted con	tainers wit	h large amount	s of water.	
•	•					
UNUSUAL FIRE AND EXPLOSION HAZARDS	At eleva	ted tem	peratures w	ill react with	almost all	
dements, most metals and many or	ganic and	inorga	nic compoun	ds, usually wi	th the	
evolution of heat.						
		eactivity				
		•			conto. at	
INCOMPATIBILITY At normal temper				ith reducing a	gents; at	
elevated temperatures, reacts wi	th almost	all su	bstances.			
HAZARDOUS DECOMPOSITION PRODUCTS	·					
			· · · · · · · · · · · · · · · · · · ·			
CONDITIONS TO AVOID Heat, moisture	(hydroly:	sis for	ns corrosiv	e HCl which ca	n attack	
metals liberating book gen which	in turn	an com	bine explos	ively with chl	orine).	
			محتشدون			
- · ·						
			` . <u> </u>			



THRESHOLD LIMIT VALUE 1 ppm; 3 milligrams per cubic meter of air.
EFFECTS OF OVEREXPOSURE ISKIN, EYE, INHALATION, ETC.1 Liquid chlorine causes "burns" of skir
eyes and mucous membranes. Gaseous chlorine irritates eyes, skin and mucous membranes
especially of the respiratory tract, causing throat irritation couching matching
vomiting and may result in pulmonary edema and death, depending upon degree of exposure
and promptness of medical treatment.
EMERGENCY AND FIRST AID PROCEDURES EYES: Flush with copious amounts of water.
SKIN: Flush with water; remove contaminated clothing and cleanse affected areas with
soap and warm water. INGESTION: Dilute by drinking lime water, milk of magnesia or
plain water. INHALATION: Remove to fresh air, administer oxygen.
SPECIAL MEDICAL PROCEDURES Treat for inhalation exposure first, administering oxygen
by trained personnel. Do not use sodium bicarbonate internally or chemical neutra-
lization externally. Spontaneous vomiting may occur but do not use emetics or try to
induce vomiting. Get immediate medical assistance for all exposures. Administer
Special Protection Information stimulants only upon medical direction.
VENTILATION Normal - convection or general exhaust: Emergency - suction at floor level
with exhaust to less hazardous area or to scrubber system.
RESPIRATORY (TYPE) Canister (Acid-gas) type for low concentrations: self-contained
GLOVES (TYPE) Rubber breathing apparatus for emergencies
EVE (TYPE) Chemical safety goggles: full-face masks for emergencies.
OTHER
SPECIAL PRECAUTIONS FOR HANDLING AND STORAGE Store in dry, ventilated, fire-resistant
storage areas separate from other chemicals. Protect from heat and direct sunlight.
STEPS TO TAKE IN EVENT OF SPILL OR RELEASE Keep upwind from leak; get personnel protective
equipment. Shut off supply at source; or, if possible, rig up to bleed container into
absorbing alkaline solution. In event of uncontrollable release, evacuate area,
thank in alkalina askubini (asauki aski aski askubini kuluakai lima).
waste DISPOSAL ADSOrb in alkaline solution (caustic soda, soda ash of hydrated lime); control pH of ultimate discharge to sewer or stream.
REMARKS
REFERENCES MCA - Chemical Safety Data Sheet SD-80; Chlorine; Patty, F A - Ind Hyg
and Toxicology, Vol II, 2nd Edition (1962): Sax, N I - Dangerous Properties of
Industrial Materials, 3rd Edition (1968).
NAME G W Darling
The information gresented herein, while not guaranteed, was prepared by technically
knowledgeoblespersonnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and hendling  December 1971

Compatible of the Calif

may involve other or additional considerations.