

MATERIAL SAFETY DATA SHEET

 ALDON
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 & CORPORATION
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MSDS No.: AA0264 AA0265 Effective Date: January 1, 2007

SECTIC	NI	NAME		2	4 HOUR EMER	GENCY	ASSIST	TANC	E
Product	Ammonium Hydroxide, 28-30%			CHEMTREC Health 3					7
Chemical Synonyms	Ammonium	on	-	<u>3</u> <u>1</u> <u>800-4</u>	Health 3 5-226-6177 Fire 1			$\left\{ \right\}$	
Formula	NH ₄ OH		-			Reactivit	-	$\left \right $	
Unit Size	up to 3.785 Lt.				NFPA HAZARD RATING		HMIS *		
C.A.S. No.	1336-21-6			-	MINIMAL SLIGHT MO	DERATE :	SERIOUS	severe 4	
SECTIO	N II	INGREDIE	NTS OF	М	IXTURES				
Principal (Component(s)		% TLV Units					_
Ammoni	um hydroxide			~ 2	8-30% as Ammonia	25 ppm in air as ammonia			
Water: (CAS No. 7732	-18-5)		~70-72%		None e	None established.		
DANGE	R! CORROSIV	E! POISON!							
CAUSES	SEVERE BUR	NS. MAY BE FATAL IF	SWALLOW	ED (OR INHALED. VAPO		MELY IRRI	TATIN	G.
SECTIO	N III	PHYSICAL	DATA						
Melting Poir	nt (°F)	-77°C (-106°F)		Specific Gravity $(H_2^0 = 1)$		0.900			
Boiling Poir	nt (°F)	36°C (97°F)		by	rcent Volatile Volume (%)	100	100%		
/apor Pressure (mm Hg)		115 mm @ 20°C (68	B°F)	Evaporation Rate (Water =1)		1			
√apor Dens	sity (Air=1)	0.6 - 1.2							
Solubility in	Water	Complete.							
Appearance		Water, white liquid;	-						
SECTIO	N IV	FIRE AND			ON HAZARD D				
Flash Point Method Used) N/A		Flammable L % by Volum	le Limits in Air Iume NH ₃ Gas		Lower 16		pper 25	—
Extinguisher Media	Use a	any media for extinguish	ing the supp	orti	ng fire.				_
SPECIAL F PROCEDU	TREFIGHTIN RES		tective cloth	ing	with respirator mask	having ar	nmonia va	por	
		canister, or N	NIOSH/MSH	A-a	pproved self-contain	ed breathi	ing appara	tus.	
(2004 EMEF	GENCY RESP	ONSE GUIDEBOOK, R	SPA P 5800).9,	GUIDE PAGE NO. 1	54)			
	FIRE AND N HAZARDS		ad from this	Dro	duct are beauter the	oir and r	nov trovol		
			ound to a dis	star	duct are heavier thar at source of ignition.				

Auto-ignition Temperature 651°C (1204°F).

SECTION V				EALTH HAZAR	D DATA			AA0264	
Threshold	l Lim	ited V	alue _{As}	s Ammonia gas TWA:	25 ppm; STE	: L: 35 pp	om (ACGIH 20	01).	
	ffects of Overexposure			ral Rat-LD50 350 mg/k	kg.		·		
respiratory, inflammatio overexposu	gastro n and re may	ointestin edema y include	al and diges of the laryn: e burning se	aterial is extremely des stive tract, eyes and sk x and bronchi, chemica ensation, shortness of l d mucous membranes	in. Inhalation Il pneumonitis preath, heada	n may be s and puli	fatal as a resu monary edema	It of spasm, . Symptoms of	
Emergeno First Aid F	Proce	edure	>	IGESTION: Call physi omiting only if advised	by appropriate	e medica	l personnel. N	lever give	
with water f <u>SKIN:</u> Ren medical atte difficult, give	for at le nove c ention. e oxyg	east 15 ontamir INHAL jen. Ge	minutes, lift ated clothir <u>.ATION:</u> R t medical at		elids occasio ith mild soap not breathing,	nally. Ge and wate	et immediate mer. If irritation of	nedical attention.	
SECTIO			R	EACTIVITY DA					
Stability	Stability Unstable			Conditions to Avoid Excessive temperature.					
-		ble	Х						
Incompati (Materials	-		Acids,	s, strong oxidizers, halogens, heavy metals.					
Hazardous Decomposition Products				Decomposes to ammonia gas and above 450°C (842°F) to hydrogen gas and nitrogen oxides.					
				Conditions to Avoid					
Hazardous Polymerization May Occur Will Not Occur X					N	lot applic	able.		
SECTIO				PILL OR LEAK	PROCEL	JURES	6		
Steps to b material is				bisulfate. Ab		rt dry mat	efully neutralize terial and place		
Waste Dis	posa	al Met		charge, treatment, or dispose disposal guidelines are					
			Dis	spose of in accordance	with Federal	l, State a	nd Local regula	ations.	
SECTIO	N VI	11	S	PECIAL PROTE	CTION I	NEOR	MATION		
	Respiration Protection Work in vent		Vork in vent	ntilation hood or wear a NIOSH/MSHA-approved respirator with ammonia					
Ventilatio	n ⊢	Local Ex		Recommended.	Special		No.		
Drotootivo			cal (General)		Other		No.		
Protective		ves		Rubber.	Eye Prote	ection	Chemical	safety goggles.	
Other Protective Faceshield, lab coat, vented hood, proper gloves, eye wash s						station.			
SECTIO	N IX		S	PECIAL PRECA	UTIONS				
Precautions in Handling	& Sto	oring	S	tore at 75°F. Store aw					
Keep container tight	ly closed	when not in	use. St	tore in a well-ventilated	area. Wash	thorough	niy after handli	ng	
Other Preca	ution	S Read For lai	label on containe boratory use only	r before using. Do not wear conta . Not for drug, food or household	act lenses when wor use. Keep out of re	rking with che each of childre	micals. en.		

Avoid contact with eyes, skin and mucous membranes. Avoid breathing vapor. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No.	11	Date	01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator JAB
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