72-62-7920-01

Ashland Chemical Company

DIVISION OF ASHLAND OIL, INC.

MATERIAL SAFETY

P. O. BOX 2219, COLUMBUS, OHIO 43216 . (614) 889-3333



PAGE: 1

DATA SHEET

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24-HOUR EMERGENCY TELEPHONE (606) 324-1133

AMMONIUM HYDROXIDE REAGENT ACS

THIS MSDS COMPLIES V					OWMONTO		SIANUA	RUJ	
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PRODUCT NAME: AMMONIUM CAS NUMBER:	HYDROXIDE 1	REAGENT A -6		05 86 07	1 4112	557-4	84		
HAYS REPUBLIC ATTN: FRANK LESENER 225 N. ROESKE AVE. Michigan City, in 46360				DATA SHEET NO: DDDD642-DD2 LATEST REVISION DATE: 04/86-86D98 PRODUCT: INVOICE: REQST INVOICE DATE: D7/14/86					
				TO:	AIE: UZ	/17/6			
	SECTION	I-PRODUCT	IDENT	IFICATION					
GENERAL OR GENERIC ID: A	ALKALI			* *					
DOT HAZARD CLASSIFICATIO	ON: CORROSI	VE MATERI	AL (17	3.240)					
	SEC	TION II-C	OMPONE	NTS					
INGREDIENT	N (BY	WTO	PEL	TLV				NOTE	
AMMONIA CAS #: 7664-41-7	3	0-35	50	2.5	PPM				
		ON III-PH	YSICAL	DATA					
PROPERTY			EMENT	•			EASURE		
BOILING POINT	FOR PRODUC	T				(82.00 27.77 60.00	DEG F DEG C) MMHG	
VAPOR PRESSURE	FOR PRODUC	T				9	70.00 68.00 20.00	MMHG DEG F DEG C)	
SPECIFIC VAPOR DENSITY	AIR = 1						. 6		
SPECIFIC GRAVITY							. 899		
SFECURE OF CHAPTER						C	60.00 15.55	DEG F DEG C)	
PERCENT VOLATILES							100.00		
EVAPORATION RATE						SLOW	ER THAI	ETHER	
	CTION IV-FI	RF AND EX	PLOSIC	N INFORMA	TION				
FLASH POINT NOT APPLICA	ABLE								
EXPLOSIVE LIMIT	NOT APPLI	CABLE							
EXTINGUISHING MEDIA: WAT			******	MATERIALS	. AMMO	NTA			
HAZARDOUS DECOMPOSITION FIREFIGHTING PROCEDURES				A D D	ADATHE	WTTH	A FULL	ID E18.1	
BODY PROTECTIVE CL	OTHING WHEN	FIGHTING	FIRES		VE PRES	SURE	HODE A	db Poll	
SPECIAL FIRE & EXPLOSION	N HAZARUS:								
		N V-HEALT	H HAZA	RD DATA					
PERMISSIBLE EXPOSURE LEV	VEL .	50 P	PM						
THRESHOLD LIMIT VALUE		25 P	PM						
NOT ESTABLISHED FOR	R PRODUCT.	SEE SECT	ION II						
EFFECTS OF ACUTE OVEREX									
EYES - CAUSES SEVERE DAY SKIN - CAUSES BURNS, POS BREATHING - MIST CAN CAV SWALLOWING - RESULTS IN RESULT IN DEATH ON	SEVERE DAM	AGE TO MU	COUS	EMBRANES	Y. PASSAG AND DEE	ES. P TIS	SVES, (CAN	
FIRST AID:				ATER COR	AT 1545	7 45	MTNUTES	S. GET	
IF ON SKIN: IMMEDIATELY MEDICAL ATTENTION. BEFORE RE-USE.	REMOVE CON	, AMILIA, CC	. 020					*	
IF IN EYES: IMMEDIATELY LIFTING UPPER AND L	FLUSH WITH	LARGE AM OCCASIONA	LLY.	OF WATER GET IMMED	FOR AT.	DICAL	ATTENT	ION.	

IF SWALLOWED: DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE THROAT. DILUTE BY GIVING WATER. GIVE MILK OF MAGNESIA. KEEP WARM, QUIET. GET MEDICAL ATTENTION IMMEDIATELY.

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SECTION V-HEALTH HAZARD DATA (CONTINUED)
IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.
PRIMARY ROUTE(S) OF ENTRY:
INHALATION
SKIN CONTACT
SECTION VI-REACTIVITY DATA
HAZARDOUS POLYMERIZATION: CANNOT OCCUR
STABILITY: STABLE
INCOMPATIBILITY: AVOID CONTACT WITH:, STRONG MINERAL ACIDS., COPPER, METALLIC MERCURY
SECTION VII-SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
SIECO IV DE INIMI EN VICE INVENTENCE DE L'ACCESSER
SMALL SPILL: ALLOW TO EVAPORATE. VENTILATE AREA.
LARGE SPILL: NONESSENTIAL EMPLOYEES SHOULD BE EVACUATED FROM THE EXPOSURE AREA. PERSONS INVOLVED IN THE CONTROL AND REPAIR OF THE LEAK SHOULD BE PROVIDED WITH ALL NECESSARY PROTECTIVE EQUIPMENT AND BE PROPERLY TRAINED FOR EMERGENCY SITUATIONS INVOLVING THIS MATERIAL.
WASTE DISPOSAL METHOD:
SMALL SPILL: FLUSH DOWN DRAIN WITH LARGE AMOUNTS OF WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS.
LARGE SPILL: ADD SLOWLY TO A LARGE CONTAINER OF COLD WATER WITH AGITATION. WHEN ALL HAS REACTED, NEUTRALIZE WITH 3M-HYDROCHLORIC ACID OR 6M-AMMONIUM HYDROXIDE AS REQUIRED AND FLUSH DOWN DRAIN WITH EXCESS WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS.
SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED
RESPIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.
VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS:, NEOPRENE
EYE PROTECTION: CHEMICAL SPLASH GOGGLES AND FACE SHIELD (8" MIN.) IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)
OTHER PROTECTIVE EQUIPMENT: TO PREVENT SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.
SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS
CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.
THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND CONFIRM IN ADVANCES.