

Product Number: 26550280

Clear Ammonia

MATERIAL SAFETY DATA SHEET

THIS FORM MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. TO BE VALID, ALL INFORMATION REQUIRED BY 1910.1200(G) OF THE STANDARD MUST APPEAR ON THIS FORM. CONSULT THE STANDARD FOR SPECIFIC REQUIREMENTS. NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

IDENTITY (AS USED ON LABEL AND LIST) CLEAR AMMONIA

SECTION I

MANUFACTURER'S NAME: EMERGENCY PHONE: 1-602-849-6961  
PATTERSON LABORATORIES, INC. TELEPHONE NUMBER FOR INFORMATION 1-602-269-6251  
4940 W. JEFFERSON STREET DATE PREPARED: OCTOBER 2, 1992  
PHOENIX, AZ 85043

SECTION II- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY/ COMMON NAMES	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	% OPTIONAL
AMMONIA (AS NH3)	50 PPM	25 PPM	NIOSH 50 PPM	

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 191-212 DEGREES FAHRENHEIT SPECIFIC GRAVITY: 0.989  
VAPOR PRESSURE (MMHG): N/A MELTING POINT: N/A  
VAPOR DENSITY(AIR=1): N/A EVAPORATION RATE(BUTYL ACETATE =1  
SOLUBILITY IN WATER: COMPLETE APPEARANCE AND ODOR: CLEAR LIQUID  
WITH DISTINCT AMMONIA ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT(METHOD USED) NON-FLAMMABLE LEL: 16% UEL: 27%  
EXTINGUISHED MEDIA: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY, OR FOAM  
AS NH3 AS NH3  
SPECIAL FIRE FIGHTING PROCEDURES: IF POSSIBLE, MOVE PRODUCT FROM FIRE AREA.  
COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY  
UNUSUAL FIRE AND EXPLOSION HAZARDS: NEGLIGIBLE FIRE AND EXPLOSION HAZARD,  
HOWEVER, IF AMMONIA IS EVOLVED, IT IS FLAMMABLE.

SECTION V - REACTIVITY DATA

STABLE: X  
CONDITIONS TO AVOID: HEAT  
INCOMPATIBILITY (MATERIALS TO AVOID)  
CHLORINE, BROMINE, IODINE, HYPOCHLORITE, MINERAL ACIDS. VIOLENT RECTIONS MAY  
OCCUR WITH INCOMPATIBLE  
HAZARDOUS DECOMPOSITION OF BYPRODUCTS: MATERIALS, RELEASING IRRITATING OR  
TOXIC GASES.  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: NONE

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY: INHALATION: LIKELY SKIN: LIKELY INGESTION: UNLIKELY  
HEALTH HAZARDS(ACUTE/CHRONIC)  
(ACUTE)-BASED ON THE TESTING OF THIS PRODUCT IN ANIMALS, IT IS BOTH AN EYE  
AND SKIN IRRITANT (RABBIT) AND TOXIC BY INGESTION (RAT). (CHRONIC) - NOT  
DETERMINED ON THIS PRODUCT.  
CARCINOGENICITY: NTP :N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A

NOT DETERMINED FOR HOUSEHOLD AMMONIA OR ITS HAZARDOUS COMPONENT (NH3).  
SIGNS AND SYMPTOMS OF EXPOSURE: AMMONIA (NH3) IS THE HAZARDOUS INGREDIENT  
IN THE FINISHED PRODUCT. THE EFFECT DESCRIBED REPRESENT THE "WORST CASE"  
SCENARIO. INHALATION - MILD EXPOSURE TO AMMONIA VAPORS MAY CAUSE IRRITATION  
OF THE NOSE, THROAT, COUGHING AND SNEEZING. A MORE SEVERE EXPOSURE MAY CAUSE  
RESPIRATORY IRRITATION, BRONCHITIS AND PNEUMONIA. INGESTION - MAY CAUSE  
EXCESSIVE SALIVATION, NAUSEA, VOMITING, GASTRIC IRRITATION WITH CHANCE OF  
PERFORATION. INGESTION OF LARGE QUANTITIES MAY PRODUCE CNS DEPRESSION, SHOCK  
AND CONVULSIONS. SKIN - POWERFUL IRRITANT, MAY CAUSE SEVERE BURNING PAIN AND  
CORROSIVE DAMAGE. REPEATED OR PROLONGED EXPOSURE MAY CAUSE DERMATITIS. EYES -  
POWERFUL IRRITANT, MAY CAUSE CONJUNCTIVITIS, SWELLING OR EYELIDS, CHEMICAL  
BURNS, TRANSIENT CORNEAL DAMAGE, REPEATED OR PROLONGED EXPOSURE MAY CAUSE  
CATARACTS AND RETINAL ATROPHY.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

EYES - IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET  
PROMPT MEDICAL ATTENTION. SKIN - RINSE WELL WITH RUNNING WATER. IF IRRITATION  
PERSISTS, CONTACT PHYSICIAN OR LOCAL POISON CONTROL CENTER.

INHALATION - REMOVE VICTIM TO FRESH AIR. PROVIDE SYMPTOMATIC AND SUPPORTIVE  
CARE. CONTACT PHYSICIAN OR LOCAL POISON CONTROL CENTER.

INGESTION - IMMEDIATELY GIVE LARGE QUANTITIES OF WATER OR MILK TO DILUTE.  
DO NOT INDUCE VOMITING. GET PROMPT MEDICAL ATTENTION.

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#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

EYE PROTECTION - AVOID EYE CONTACT. WEAR PROTECTIVE SAFETY GOGGLES OR FACE  
SHIELD.

SKIN PROTECTION - AVOID PROLONGED OR REPEATED SKIN CONTACT. WEAR PROTECTIVE  
GLOVES.

RESPIRATORY PROTECTION - KEEP UPWIND OF SPILL. AVOID BREATHING VAPORS. USE  
NIOSH APPROVED RESPIRATOR THAT WILL PROVIDE PROTECTION FROM AMMONIA GAS. IF  
VAPORS >300PPM, USE SCBA w/FULL FACE SHIELD.

WASTE DISPOSAL METHOD: DILUTE WITH WATER AND FLUSH TO SEWER IN ACCORDANCE  
WITH FEDERAL, STATE AND LOCAL ENVIRONMENT REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DO NOT MIX WITH OTHER HOUSEHOLD CHEMICALS, SUCH AS BLEACH, AUTOMATIC TOILET  
BOWL CLEANERS, WALL OR TILE CLEANERS. STORE IN COOL, VENTILATED AREA. KEEP  
OUT OF DIRECT SUNLIGHT. AVOID OVERHEATING, PLASTIC BOTTLE WILL BULGE FROM  
AMMONIA VAPOR PRESSURE.

OTHER PRECAUTIONS: NONE

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#### SECTION VIII - CONTROL MEASURES

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RESPIRATORY PROTECTION: NIOSH APPROVED RESPIRATOR OR BREATHING APPARATUS WITH  
FACE SHIELD.

VENTILATION:

LOCAL EXHAUST: XX

PROTECTIVE GLOVES: WEAR PROTECTIVE GLOVES.

EYE PROTECTION: WEAR SAFETY GOGGLES OR FACE SHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: UNIFORMS, COVERALLS, OR LABCOATS.

WORK/HYGIENIC/MAINTENANCE PRACTICES: PROVIDE EYEBATH AND EMERGENCY SHOWER.

LAUNDRY WORK CLOTHING WHEN SOILED.

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RESPONSIBLE FOR DAMAGES OF ANY KIND RESULTING FROM THE USE OF OR RELIANCE  
UPON SUCH INFORMATION.

OTHER HANDLING AND STORAGE REQUIREMENTS: DO NOT MIX WITH OTHER HOUSEHOLD  
CHEMICALS, SUCH AS BLEACH, AUTOMATIC TOILET BOWL CLEANER, WALL OR TILE  
CLEANERS. STORE IN A COOL VENTILATED AREA. KEEP OUT OF DIRECT SUNLIGHT. AVOID  
OVER HEATING. PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED

EQUIPMENT: PIPELINES MUST BE THOROUGHLY FLUSHED OF AMMONIA BEFORE WELDING OR CUTTING TO AVOID POSSIBLE IGNITION OF TRAPPED AMMONIA VAPORS.

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FOR GENERAL INFORMATION OR MATERIAL SAFETY DATA SHEET REQUESTS  
PLEASE CALL OUR OFFICES AT:

(800) 997-4413 MONDAY THROUGH FRIDAY 9 AM TO 5 PM

ALL KIK INTERNATIONAL/SOCAL ARE LISTED WITH HAZARD INFORMATION SERVICES.  
FOR EMERGENCY RESPONSE AND HAZARD COMMUNICATION ONLY CALL:

1 (800) 228-5635 EXTENSION 179