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SIGMA-ALDRICH	SEARCH
YOUR SOU	
Product Number: <b>30501</b> Product Name: <b>Ammonium hydroxide solution</b>	
	Valid 05/2003 - 07/2003
Description / Pricing	☐ Riedel-de Haen 3050 Spruce St.
Cert. of Analysis	St. Louis, MO 63178 USA Tel: 314-289-6000
MSDS	
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Print Preview	MATERIAL SAFETY DATA SHEET
Bulk Quote Ask A Scientist	SECTION 1 CHEMICAL IDENTIFICATION
	CATALOG #: 30501 NAME: AMMONIA SOLUTION ABOUT 25% NH3
	R.G. REAGENT SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS
	CAS #: 1336-21-6 EC NO: 215-647-6
	SECTION 3 HAZARDS IDENTIFICATION
	LABEL PRECAUTIONARY STATEMENTS CORROSIVE DURCHOUS FOR THE ENVIRONMENT
	DANGEROUS FOR THE ENVIRONMENT HARMFUL IF SWALLOWED.
	CAUSES BURNS. VERY TOXIC TO AQUATIC ORGANISMS.
	LACHRYMATOR. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
	WATER AND SEEK MEDICAL ADVICE. WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
	PROTECTION. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
	IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE). AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/
	SAFETY DATA SHEETS. SECTION 4 FIRST-AID MEASURES
	IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.
	DO NOT INDUCE VOMITING. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
	RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
	FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
	IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.
	SECTION 5 FIRE FIGHTING MEASURES
	CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM. SPECIAL FIREFIGHTING PROCEDURES
	WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
	UNUSUAL FIRE AND EXPLOSIONS HAZARDS EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
	SECTION 6 ACCIDENTAL RELEASE MEASURES WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
	RUBBER GLOVES. COVER WITH DRY LIME OR SODA ASH, PICK UP, KEEP IN A CLOSED CONTAINER
	AND HOLD FOR WASTE DISPOSAL.
	VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE. EVACUATE AREA.
	SECTION 7 HANDLING AND STORAGE
	SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION SAFETY SHOWER AND EYE BATH.
	USE ONLY IN A CHEMICAL FUME HOOD. WASH CONTAMINATED CLOTHING BEFORE REUSE.
	DISCARD CONTAMINATED SHOES. WASH THOROUGHLY AFTER HANDLING.
	DO NOT BREATHE VAPOR. DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
	ATTATA DOATAMAEN AD DEDERTEN EVOACTIDE

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AVOID FRODUNGED OR REFERIED EAFODURE.
    NIOSH/MSHA-APPROVED RESPIRATOR.
    COMPATIBLE CHEMICAL-RESISTANT GLOVES.
    CHEMICAL SAFETY GOGGLES.
    FACESHIELD (8-INCH MINIMUM)
    KEEP TIGHTLY CLOSED.
    STORE IN A COOL DRY PLACE.
SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - -
  PHYSICAL PROPERTIES
    MELTING POINT:
                        -77 C
    EXPLOSION LIMITS IN AIR:
                                                27 %
      UPPER
                                                16 %
      LOWER
   VAPOR PRESSURE: 115 MMHG @ 20 C
SPECIFIC GRAVITY: 0.99
VAPOR DENSITY: 1.2 G/L
    SWISS POISON CLASS:
                          4
SECTION 10. - - - - - - - - STABILITY AND REACTIVITY - - - -
  STABILITY
    STABLE.
  INCOMPATIBILITIES
    COPPER, COPPER ALLOYS
    GALVANIZED IRON
    ZINC
  HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
    NITROGEN OXIDES
    AMMONIA
  HAZARDOUS POLYMERIZATION
   WILL NOT OCCUR.
                      - - - - TOXICOLOGICAL INFORMATION - - - - - -
SECTION 11. - -
  ACUTE EFFECTS
   MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
    AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
    INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE
    LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
    SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
    WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
    VOMITING.
    CAUSES BURNS.
    MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.
    LACHRYMATOR.
    MAY BE HARMFUL IF INHALED.
    MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANES
    AND UPPER RESPIRATORY TRACT.
    HARMFUL IF SWALLOWED.
  RTECS #: BQ9625800
SECTION 12. - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - -
    DATA NOT YET AVAILABLE.
SECTION 13. - - - - - - - DISPOSAL CONSIDERATIONS - - - - - -
    CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
    THIS MATERIAL.
    DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
    CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.
SECTION 14. - - - - - - - TRANSPORT INFORMATION - - - - -
    CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.
SECTION 15. - - - - -
                        - - - REGULATORY INFORMATION - - - - - - - -
  EUROPEAN INFORMATION
    EC INDEX NO:
                     007-001-01-2
    CORROSIVE
    DANGEROUS FOR THE ENVIRONMENT
    R 34
    CAUSES BURNS.
    R 50
    VERY TOXIC TO AQUATIC ORGANISMS.
    S 36/37/39
    WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
    PROTECTION.
    S 61
    AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/
    SAFETY DATA SHEETS.
SECTION 16. - - - - - - - - OTHER INFORMATION- - - - -
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