

MATERIAL SAFETY DATA SHEET

AMMONIA 7%

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SECTION I: PRODUCT INFORMATION

TRADE NAME: AMMONIA 7% -
SUPPLIER/MANUFACTURER: Hunnisett Chemicals Limited, 200 Wicksteed Avenue, Toronto, Ontario M4G 2B6 (416) 421-5212
PREPARATION DATE: Jun 1, 2005
PRODUCT USE: Spotting Agent
PRODUCT IDENTITY: Ammonia

CLASS D2B

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY: Ammonium Hydroxide CAS# / NA# / UN#: 1336-21-6 CONC. (W/W): 7 %
OSHA PEL, ACGIH TLV: TOXICITY: LD50 (oral, rat) 350 mg / kg;
LC50 (mouse) 4837 ppm / 1 hour.

SECTION III: PHYSICAL DATA

PHYSICAL STATE: Liquid APPEARANCE AND ODOR: Clear with ammonia odor
ODOR THRESHOLD: Not determined SPECIFIC GRAVITY: Approx. 1
VAPOR PRESSURE: Similar to water VAPOR DENSITY: Not determined
EVAPORATION RATE: Not determined BOILING POINT: 100 degrees C
FREEZING POINT: Not determined pH: 12.0 - 12.5
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable WATER SOLUBILITY: 100%

SECTION IV: FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY:
(a) Not flammable
(b)
MEANS OF EXTINCTION: Treat primary cause of fire
FLASHPOINT & METHOD OF DETERMINATION: None
UPPER FLAMMABLE LIMIT: Not applicable
LOWER FLAMMABLE LIMIT: Not applicable
AUTO-IGNITION TEMPERATURE: Not applicable
HAZARDOUS COMBUSTION PRODUCTS: None known
EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT: Not sensitive
EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE: Not sensitive

SECTION V: REACTIVITY DATA

CONDITION UNDER WHICH THE PRODUCT IS CHEMICALLY UNSTABLE: Chlorine and acids contribute to instability
NAME OF ANY SUBSTANCE OR CLASS OF
SUBSTANCE WITH WHICH THE PRODUCT IS INCOMPATIBLE: Chlorine, acids, silver, mercury
CONDITIONS OF REACTIVITY: Mixing with above
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia gas

SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:
SKIN CONTACT: Irritant
SKIN ABSORPTION: Irritant
EYE CONTACT: Irritant
INHALATION: May be irritating with long exposure
INGESTION: May cause nausea
EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Inhalation of excessive ammonia gas may cause edema.
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Inhalation of excessive ammonia gas may cause edema
EXPOSURE LIMITS: Not determined
IRRITANCY OF PRODUCT: Inhalation - moderate
SENSITIZATION TO PRODUCT: Not determined
CARCINOGENITY: Not determined
REPRODUCTIVE TOXICITY: Not determined
TERATOGENICITY: Not determined
MUTAGENICITY: Not determined
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known

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SECTION VII: PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Rubber gloves and eye glasses
ENGINEERING CONTROLS: Mechanical ventilation
PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL: Mop up or use clay absorbant products
WASTE DISPOSAL: In accordance with Provincial or Municipal regulations
HANDLING PROCEDURES AND EQUIPMENT: Normal
STORAGE REQUIREMENTS: Normal
SPECIAL SHIPPING INFORMATION: None

SECTION VIII: FIRST AID MEASURES

IN CASE OF EYE CONTACT: Flush with water. Consult physician.
IN CASE OF SKIN CONTACT: Flush with water.
IF INHALED: Remove to fresh air. If symptoms persist seek medical attention.
IF INGESTED: Obtain medical attention. Drink large amounts of water.
PHYSICIAN: Treatment based on judgment of physician and symptoms present.

SPECIAL PRECAUTIONS

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human - system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

PREPARATION INFORMATION

PREPARED BY: Hunnisett Chemicals Ltd. PHONE NUMBER: (416) 421-5212
24 HOUR EMERGENCY NUMBER: CANUTEC 1-613-996-6666

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim all expressed or implied warranties of merchantability or of liability from the use of this product. The information contained herein, as of this date, is believed to be true and accurate, but it is the user's obligation to study the MSDS and determine the conditions for the safe use of this product.
