

Material Safety Data Sheet

Provided by:
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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name AMMONIA, ANHYDROUS

Synonyms AMMONIA

Chemical Name ANHYDROUS AMMONIA

Date of Issue: 12/28/00

Emergency phone: 281-457-4888

Reviewed / Revision Date: 2/17/2011

Chemtrec: 800-424-9300

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
AMMONIA	> 99%	7664-41-7

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 25 ppm / 35 ppm (STEL)

Eye Contact EXPOSURE CAN CAUSE IRRITATION, POSSIBLE BURNS, AND PERMANENT DAMAGE.

Skin Contact PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION AND POSSIBLE BURNS.

Ingestion MAY CAUSE TISSUE DAMAGE, BURNS, AND VOMITING.

Inhalation MAY CAUSE RESPIRATORY TRACT IRRITATION AND POSSIBLE DAMAGE.

Carcinogenicity: NTP NO IARC NO OSHA NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point (°F) NOT APPLICABLE

Extinguishing Media CARBON DIOXIDE, REGULAR DRY CHEMICAL.

Special Firefighting Procedures/Precuations EVACUATE NON ESSENTIAL PERSONNEL. FIREFIGHTERS SHOULD WEAR FULL FACE, SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. APPLY WATER FOG TO COOL FIRE EXPOSED CONTAINERS. DO NOT DIRECT WATER STREAMS ONTO POOLS OF LIQUID AMMONIA BECAUSE THIS INCREASES AMMONIA VAPOR FORMATION.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill:

DO NOT PUT WATER ON LIQUID AMMONIA.. STOP LEAK IF SAFELY IF POSSIBLE WITH TRAINED PERSONNEL EQUIPPED WITH PROPER PPE. EVACUATE UNNECESSARY PERSONNEL. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. CONTAIN RUN-OFF TO PREVENT FROM ENTERING WATERWAY OR SEWER.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

PROTECT CONTAINERS FROM DAMAGE AND TEMPERATURES EXCEEDING 120 °F. CYLINDERS SHOULD BE STORED UPRIGHT, WITH VALVE PROTECTION CAP IN PLACE AND FIRMLY SECURED TO PREVENT FALLING OR BEING KNOCKED OVER.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	USE NIOSH APPROVED RESPIRATOR.
Ventilation	LOCAL AND MECHANICAL RECOMMENDED.
Protective Gloves	CHEMICAL IMPERVIOUS GLOVES.
Eye/Face Protection	CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
Other Protection	CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
Work Practices	USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F):	-28.1	Vapor Pressure (mmHg):	2327 (@ 60 F)
Freezing Point (°F):	NOT ESTABLISHED	Vapor Density (Air=1):	0.60
Solubility (H2O):	HIGH	Specific Gravity (H2O=1):	0.62
pH	11.6	Evaporation Rate:	RAPID @ AMBIENT TEMP.
Appearance/Odor:	COLORLESS, PUNGENT GAS.		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	YES
Incompatible Material:	STRONG ACIDS, HYPOCHLORITES, OXIDIZING GASES, BROMINE, CHLORINE, FLUORINE, HALOGENS, CALCIUM, IODINE, GOLD, SILVER, COPPER, ZINC, MERCURY.
Hazardous Polymerization:	WILL NOT OCCUR.
Decomposition Products:	HYDROGEN AND NITROGEN AT HIGH TEMPERATURE.

SECTION 11 - TOXICITY INFORMATION

LD50 (rat) = 350 mg/kg
LD50 (mouse) = 96 mg/kg
AMMONIA IS NOT A CUMULATIVE METABOLIC POISON.

