

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 02/23/00

This MSDS complies with OSHA's Hazard Communication Standard CFR 1910.1200 and OSHA Form 174.

N/A SIGNIFIES NON-APPLICABLE

IDENTITY AND SUPPLIERS INFORMATION

PRODUCT NAME **ADENA 3808** CHEMICAL FAMILY:

PRODUCT NUMBER: AD3808 FORMULA: **PROPRIETARY**

SUPPLIER'S NAME: ADENA TECHNOLOGIES PHONE NUMBER: (888) 247-2312 101 Technology Lane SUPPLIER'S ADDRESS: EMERGENCY NO .: (800) 255-3924

Export, PA 15632

PROPER SHIPPING CONSUMER COMMODITY (ORM-D)

NAME:

NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
MAX PERSONAL PROTECTION	

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION								
CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	PEL	TWA-TLV	STEL-TLV	
Ammonia	No	7664-41-7	<8	Yes	25ppm	25ppm		

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES SECTION 3 - FIRE/EXPLOSION HAZARD DATA **BOILING POINT:** AUTO IGNITION TEMP: N/A VAPOR PRESSURE: ND FLASH POINT: VAPOR DENSITY: ND FLAMMABILITY LIMITS: N/A SOLUBILITY IN WATER: EXTINGUISHER MEDIA: Not combustible Complete SPECIFIC GRAVITY @20°C: HAZARDOUS PRODUCTS OF COMBUSTION: N/A 0.971 EXPLOSIVE LIMITS: N/A pH RANGE: 10.2 EVAPORATION RATE (Water=1): SPECIAL FIRE FIGHTING PROCEDURES: Wear normal fire fighting equipment >1 VOLATILE RATE: 100% with self-contained breathing apparatus. Cool drums exposed to fire to prevent PHYSICAL DESCRIPTION: Water white liquid with a strong ammonia odor. steam rupture

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable

INCOMPATIBILITY: Strong acids, strong oxidizers, and non-ferrous metals.

CONDITIONS TO AVOID: Contamination

HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia gas, oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY: FIRST AID PROCEDURES:

SKIN: Vapors and liquid are corrosive to skin resulting in chemical Remove contaminated clothing and flush exposed skin with soap SKIN:

burns. Prolonged contact may cause severe damage. and water. If irritation persists or develops, get medical attention.

Launder contaminated clothing before reuse.

EYES: Vapors are severely irritating. Liquid is corrosive to eyes. Brief EYES: Immediately flush with large amounts of water for 15 minutes and get medical attention.

contact may cause severe damage. INGESTION:

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical Material is extremely corrosive to mouth, throat and

gastrointestinal system. Ingestion of even small quantities may attention immediately. Never give anything by mouth to an

result in death unconscious person.

INHALATION: Move to fresh air. Aid in breathing if necessary and get medical Vapors and mists are extremely irritating and corrosive to INHALATION:

respiratory system. attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain PEL.

VENTILATION: Local and/or mechanical exhaust to maintain exposure below PEL. PROTECTIVE CLOTHING: Neoprene gloves, apron, boots - as necessary to prevent skin contact.

EYE PROTECTION: Chemical goggles.

OTHER PRECAUTIONS: Safety shower and eyewash fountains should be easily accessible.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

WASTE DISPOSAL METHODS:

PRECAUTION IN STORAGE AND HANDLING:

Avoid skin contact. Carefully neutralize with dilute hydrochloric acid. Absorb with sand or inert material and place in suitable container for disposal. Flush residues with large amounts of water to sanitary sewer.

Dispose of in accordance with all applicable Federal, State, and Local regulations.

Empty containers may contain residuals. Thoroughly clean then offer for recycling, reuse, or disposal in accordance with governmental regulations.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without any warranty or guarantee of any kind.