



# MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 01/27/99

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

N/A SIGNIFIES NON-APPLICABLE  
N/T SIGNIFIES NOT TESTED

## IDENTITY AND SUPPLIERS INFORMATION

PRODUCT NAME: ADENA 6889  
PRODUCT NUMBER: AD6889  
SUPPLIER'S NAME: ADENA TECHNOLOGIES  
SUPPLIER'S ADDRESS: 101 Technology Lane, Export, PA 15632  
CHEMICAL FAMILY:  
FORMULA: PROPRIETARY  
PHONE NUMBER: (888) 247-2312  
EMERGENCY NO.: (800) 255-3924  
PROPER SHIPPING NAME: CORROSIVE SOLID, N.O.S.

HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	-
FLAMMABILITY	-
REACTIVITY	1
MAX PERSONAL PROTECTION	-

## SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SARA III	PEL	TWA-TLV	STEL-TLV
DIETHYLENE GLYCOL MONOMETHYL ETHER		111-77-3	3-4%			N/A	
2-(THIOCYANOMETHYLTHIO) BENZOTHAZOLE		21564-17-0	8%			N/A	
METHYLENE BIS(THIOCYANATE)		6317-18-6	8%			N/A	
PARTICULATES NOT OTHERWISE REGULATED		-	65%			10 mg/m3	

## SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N/T  
VAPOR PRESSURE: N/T  
VAPOR DENSITY: 1.03 g/cubic cm  
SOLUBILITY IN WATER: Dispersible  
SPECIFIC GRAVITY @20°C: N/T  
pH RANGE: N/T  
EVAPORATION RATE (Water=1): N/A  
PHYSICAL DESCRIPTION: Light yellow powder, slight organic odor

## SECTION 3 - FIRE/EXPLOSION HAZARD DATA

AUTO IGNITION TEMP: N/A  
FLASH POINT: N/A  
FLAMMABILITY LIMITS: ND. Keep away from flames and other ignition sources.  
EXTINGUISHER MEDIA: Water fog, carbon dioxide, foam, dry chemical  
SPECIAL FIREFIGHTING PROCEDURES: Fire fighters should wear full protective gear, including self contained breathing apparatus.

## SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Do not heat and/or store above 50°C as decomposition may increase packaging pressure.  
INCOMPATIBILITY: Strong acids, strong bases, strong oxidizers, extended heating at high temperatures  
CONDITIONS TO AVOID: N/A  
HAZARDOUS DECOMPOSITION PRODUCTS: Cyanide salts are formed when product contacts strong alkali. Thermal decomposition generates hydrogen cyanide and sulfur dioxide. Exposure to fire or flame may generate oxides of sulfur, nitrogen and/or carbon.  
HAZARDOUS POLYMERIZATION: N/A

## SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

### PRIMARY ROUTES OF ENTRY:

SKIN: Corrosive. Effects may range from moderate to severe (corrosion) depending on the length of exposure, solution concentration and first aid measures.

EYES: Corrosive. Effects may range from moderate to severe (corrosion) depending on the length of exposure, solution concentration and first aid measures.

INHALATION: May cause irritation or corrosion of mucous membranes and the lungs. Exposed individuals should be monitored for respiratory distress, bronchitis or pneumonia.

INGESTION: Ingestion is not expected to be a primary route of entry.

### FIRST AID PROCEDURES:

SKIN: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health care professional.

EYES: Flush immediately with copious amounts of water or normal saline (minimum of 15 minutes). Take exposed individual to health care professional, preferably an ophthalmologist, for further evaluation.

INHALATION: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty breathing or is cyanotic, seek a health care professional immediately.

INGESTION: DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

NOTE TO PHYSICIAN: No specific antidote is known. Probably mucosal damage may contraindicate the use of gastric lavage. Treat symptoms.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: If dusting can occur, a NIOSH approved respirator is recommended.  
VENTILATION: Ventilation should be adequate to control dust level.  
PROTECTIVE CLOTHING: Rubber gloves, body protective clothing such as long sleeve shirts and long trousers, and protective shoes are required.  
EYE PROTECTION: Safety glasses or chemical splash goggles are recommended.  
OTHER PRECAUTIONS: Eye wash fountains are strongly recommended.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Initially minimize area effected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize the adverse effects on these environments. Determine if federal, state, and/or local release notification is required. Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer, insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing spills or leaks of this product to the industrial sewer. Dispose of in accordance with all applicable Federal, State, and Local regulations.

WASTE DISPOSAL METHODS:  
PRECAUTION IN STORAGE AND HANDLING: NA

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