



MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 03/07/00

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 9900 AD9900** CHEMICAL FAMILY:
GENERIC NAME: FORMULA: PROPRIETARY
SUPPLIER'S NAME: ADENA TECHNOLOGIES PHONE NUMBER: (888) 247-2312
SUPPLIER'S ADDRESS: 101 Technology Lane EMERGENCY NO.: (800) 255-3924
Export, PA 15632
SHIPPING NAME: CONSUMER COMMODITY (ORM-D)

NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
MAX PERSONAL PROTECTION	- -

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	PEL	TWA-TLV	STEL-TLV
Sulfamic Acid	No	5329-14-6	>90	No	Not Established	1mg/m3	

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SOLUBILITY IN WATER: 15%
SPECIFIC GRAVITY @20°C: N/A
pH RANGE: 1.3
EVAPORATION RATE (Water=1): N/A
VOLATILE RATE: 0%
PHYSICAL DESCRIPTION: Off-white powder with faint odor.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

AUTO IGNITION TEMP: N/A
FLASH POINT: N/A
FLAMMABILITY LIMITS: N/A
EXTINGUISHER MEDIA: Not combustible
HAZARDOUS PRODUCTS OF COMBUSTION: N/A
EXPLOSIVE LIMITS: N/A
SPECIAL FIRE FIGHTING PROCEDURES: Oxides of sulfur may be liberated in hot fires. Wear self-contained breathing apparatus.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
INCOMPATIBILITY: Strong alkalis.
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulfur, ammonia gas.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:

SKIN: May be corrosive to skin upon extended contact.
EYES: May be corrosive to corneal tissues.
INHALATION: May cause irritation to nose and throat.
INGESTION: May be corrosive to esophageal linings.

FIRST AID PROCEDURES:

SKIN: Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
EYES: Immediately flush with large amounts of water for 15 minutes and get medical attention.
INHALATION: Move to fresh air. Aid in breathing, if necessary, and get medical attention.
INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: NIOSH/MSHA approved filter type mask for dusts, fumes and mists 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: Avoid skin contact. Carefully sweep up and place non-useable material in suitable container for disposal. Flush neutralized residues with water to sanitary sewer.
WASTE DISPOSAL METHODS: Corrosive. Dispose of in accordance with all applicable Federal, State, and Local regulations.
PRECAUTION IN STORAGE AND HANDLING: Empty containers may contain residuals. Thoroughly clean then offer for recycling, reuse, or disposal in accordance with governmental regulations.
OTHER PRECAUTIONS: Hazardous waste 40CFR261. Hazardous waste number D002.

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