



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 3322** CHEMICAL FAMILY:
PRODUCT NUMBER: AD3322 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
PROPER 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 %	SARA III	PEL	TWA-TLV	STEL-TLV
Morphiline	No	110-91-8	<15		20ppm	20ppm	
Cyclohexylamine	No	108-91-8	<15		10ppm	10ppm	

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 210°F (99°C)
VAPOR PRESSURE: ND
VAPOR DENSITY: >1
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY @20°C: 1.005
pH RANGE: 10.3
EVAPORATION RATE (Water=1): 1
VOLATILE RATE: 100%
PHYSICAL DESCRIPTION: Colorless to straw yellow liquid with strong fishy 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: Wear self-contained breathing apparatus.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
INCOMPATIBILITY: Strong acids.
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen may form in burning conditions.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:	FIRST AID PROCEDURES:
SKIN: May cause skin irritation. Can cause skin sensation.	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: May cause irritation. Permanent eye injury possible.	EYES: Immediately flush with large amounts of water for 15 minutes and get medical attention.
INGESTION: Corrosive to mucous membranes. Possible severe gastric irritation.	INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
INHALATION: Corrosive to mucous membranes. Nausea, irritation, lightheadedness, drowsiness, and/or possible anxiety may occur.	INHALATION: Move to fresh air. Aid in breathing if necessary and get medical 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: Keep upwind. Avoid skin contact. Absorb with sand or inert material and place in suitable container for disposal. Flush residues with large amounts of water to sanitary sewer.
WASTE DISPOSAL METHODS: 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.

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