



MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 01/26/10

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 8100** CHEMICAL FAMILY: Glycols
PRODUCT NUMBER: ADC8100 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: Compound, Anti-freezing, Liquid

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

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	PEL	TWA-TLV	STEL-TLV
Ethylene Glycol	No	107-21-1	95	Yes	50ppm	50ppm	

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 315°F (174°C)
VAPOR PRESSURE: ND
VAPOR DENSITY: >1
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY @20°C: 1.13
pH RANGE: 8.0
EVAPORATION RATE (Water=1): <0.002
VOLATILE RATE: >90%
PHYSICAL DESCRIPTION: Red colored liquid.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

AUTO IGNITION TEMP: N/A
FLASH POINT: N/A
FLAMMABILITY LIMITS: N/A
EXTINGUISHER MEDIA: Not combustible
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective clothing.
UNUSUAL FIRE & EXPLOSION HAZARDS: Cool drums exposed to heat or fire to prevent steam rupture.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
CHEMICAL INCOMPATIBILITY: Strong acids, strong alkalis, strong oxidizers
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: May liberate carbon monoxide, organic compounds in intense fire.
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 with repeated or prolonged contact.	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 upon contact.	EYES: Immediately flush with large amounts of water for 15 minutes and get medical attention.
INHALATION: Vapors and mists may irritate nose and throat. Prolonged contact may cause headaches and nausea.	INHALATION: Move to fresh air. Aid in breathing, if necessary, and get medical attention.
INGESTION: Ingestion may cause pain, dizziness, nervous system depression, kidney damage.	INGESTION: If swallowed, 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 can or cartridge respirator for gas and vapor as needed to maintain P.E.L.
VENTILATION: Local and/or mechanical exhaust to maintain exposure below P.E.L.
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. Absorb with sand or inert material and place in suitable container for disposal. Do not flush into waterways or 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.