



MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 07/30/13

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 5016 AD5016	CHEMICAL FAMILY:	SCALE AND CORROSION INHIBITOR		
GENERIC NAME:		FORMULA:	PROPRIETARY	HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
SUPPLIER'S NAME:	ADENA TECHNOLOGIES	PHONE NUMBER:	(888) 247-2312	HEALTH	2
SUPPLIER'S ADDRESS:	101 TECHNOLOGY LANE EXPORT, PA 15632	EMERGENCY NO.:	(800) 255-3924	FLAMMABILITY	0
		DATE PREPARED:	03/13/09	REACTIVITY	1
SHIPPING NAME:	COMPOUNDS, INDUSTRIAL PROCESS WATER TREATING, LIQUID	MAX PERSONAL PROTECTION			--C-

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	PEL	TWA-TLV	STEL-TLV
Sodium Hydroxide	No	1310-73-2	5-10	No	2 mg/m3	2 mg/m3	
Tolytriazole		64665-57-2	5-10				
2-zlipdipmp-1,2,4-butane tricarboxylic acid		37971-36-1	5-10				

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

BOILING POINT @ 760 mmHg: 212°F (100°C)
VAPOR PRESSURE @ 20°C (mmHg): N.E.
VAPOR DENSITY (air = 1): N.E.
SOLUBILITY IN WATER: 100%
SPECIFIC GRAVITY @ 20°C: 1.04
pH RANGE: 12.5-13
EVAPORATION RATE (water=1): N.E.
PERCENT VOLATILE BY WEIGHT: N.E.
PHYSICAL DESCRIPTION: amber color, no odor

FLASH POINT: N/A
AUTO IGNITION TEMP: N/A
FLAMMABILITY LIMITS: N/A
EXTINGUISHER MEDIA: CO2, DRY CHEMICAL, FOAM, WATER FOG
HAZARDOUS PRODUCTS OF COMBUSTION: N/A
EXPLOSIVE LIMITS: N/A
SPECIAL FIRE FIGHTING PROCEDURES: NONE

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Do not allow contact of the neat product with acids and metals such as aluminum, zinc and tin
INCOMPATIBILITY: Organic chemicals, nitrocarbons, halocarbons, and metals or alloys mentioned above
CONDITIONS TO AVOID: Not Applicable
HAZARDOUS DECOMPOSITION PRODUCTS: No data established
HAZARDOUS POLYMERIZATION: None

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:

SKIN: May cause irritation, burns upon extended contact.
EYES: May cause irritation and burns upon contact.

INHALATION: Mists may irritate respiratory tract.

INGESTION: Irritation of gastrointestinal system may occur.

FIRST AID PROCEDURES:

SKIN: Wash thoroughly. Seek medical attention if irritation occurs.
EYES: Wash eyes immediately with large amounts of water, lifting the lower and upper eyelids occasionally. Get medical attention immediately
INHALATION: Move person to fresh air. If breathing stops, administer artificial respiration. Get medical help immediately
INGESTION: If person is conscious, give large quantities of water or milk to dilute stomach contents. Get medical attention immediately. DO NOT INDUCE VOMITING unless directed to do so by a medical professional

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Respirator not required with most applications.
VENTILATION: Local exhaust is generally sufficient to minimize exposure.
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. Neutralize and flush with large amounts of water to sanitary sewer.
WASTE DISPOSAL METHODS: Contact waste disposal firm. Dispose of in accordance with all 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.