

MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 07/24/07

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

N/A SIGNIFIES NON-APPLICABLE

RATING

IDENTITY AND SUPPLIERS INFORMATION

ADENA 2345 PRODUCT NAME

CHEMICAL FAMILY: Internal Boiler Treatment

PRODUCT NUMBER: AD2345

PROPRIETARY FORMULA:

SUPPLIER'S NAME: SUPPLIER'S ADDRESS: ADENA TECHNOLOGIES 101 Technology Lane

PHONE NUMBER: (888) 247-2312

Export, PA 15632

EMERGENCY NO.: (800)255-3924

DATE PREPARED:

06/19/07

PROPER SHIPPING

CONSUMER COMMODITY (ORM-D)

NAMF:

IDENTIFICATION SYSTEM	
HEALTH	2
FLAMMABILITY	
	0
REACTIVITY	0
MAY DEPSONAL PROTECTION	

HMIS HAZARDOUS MATERIALS

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	No	2 mg/m3	2 mg/m3		
Potassium Hydroxide	No	1310-58-3	<5	No	2 mg/m3	2 mg/m3		
Morpholine	No	110-91-8	<5	No	20 ppm	20 ppm		

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES AUTO IGNITION TEMP: N/A

BOILING POINT: 212°F (100°C) / ND VAPOR PRESSURE: ND VAPOR DENSITY: ND SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY @20°C: 1.14

pH RANGE: 13.5 EVAPORATION RATE (Water=1): < 1

VOLATILE RATE: 85%

PHYSICAL DESCRIPTION: Dark brown liquid. **SECTION 3 - FIRE/EXPLOSION HAZARD DATA**

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: Material is alkaline. Beware of

exploding drums due to expansion.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable

INCOMPATIBILITY: Strong acids. Product reacts with zinc, aluminum, tin and other active metals liberating flammable hydrogen gas.

CONDITIONS TO AVOID: N/A HAZARDOUS DECOMPOSITION PRODUCTS: None known. HAZARDOUS POLYMERIZATION: Will not occur

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY: FIRST AID PROCEDURES:

Remove contaminated clothing and flush exposed skin with soap SKIN: Alkaline components may cause irritation upon extended contact. SKIN:

and water. If irritation persists or develops, get medical attention.

Launder contaminated clothing before reuse.

EYES: Immediate irritation upon contact which may result in chemical EYES: Immediately flush with large amounts of water for 15 minutes and

get medical attention.

INGESTION: Irritation and chemical burns possible upon ingestion. INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical

attention immediately. Never give anything by mouth to an

unconscious person. INHALATION: Unlikely route of exposure with normal handling.

INHALATION: Move to fresh air. Aid in breathing, if necessary, and get medical

attention

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. Chemical goggles. EYE PROTECTION:

OTHER PRECAUTIONS: Safety shower and eyewash fountains should be easily accessible.

HYGIENIC WORK PRACTICES: Do not eat, drink or smoke in work area. Wash hands after handling. Launder contaminated clothing

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

WASTE DISPOSAL METHODS:

Avoid skin contact. Neutralize with appropriate material and absorb with sand or inert material. Place in

suitable container for disposal. Flush neutralized residues with water to sanitary sewer. 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.

Hazardous waste 40CFR261. Number D002. KEEP OUT OF REACH OF CHILDREN.

OTHER PRECAUTIONS:

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