



MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 09/27/11

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 5015/2** CHEMICAL FAMILY:
PRODUCT NUMBER: AD5015/2 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 DATE PREPARED: 09/23/11
SHIPPING NAME: CONSUMER COMMODITY (ORM-D)

NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
MAX PERSONAL PROTECTION	-

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	PEL	TWA-TLV	PEL
Polymaleic Acid		26099-09-2	<3			Not Established	Not Established
Sulfuric Acid		7664-93-9	<10			1 mg/m3	1 mg/m3
1-Hydroxyethylidene-1, 1-Diphosphonic Acid		2809-21-4	<3			Not Established	Not Established

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 212°F (100°C)/Not Determined
VAPOR PRESSURE: Not Determined
VAPOR DENSITY: >1
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY @20°C: 1.15
pH RANGE: 1.5
EVAPORATION RATE (Water=1): <1
VOLATILE RATE: 80%
PHYSICAL DESCRIPTION: Blue green liquid with mild odor.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

FLAMMABILITY: (FLAME PROJECTION) AUTO IGNITION TEMP:
FLASH POINT: Not Applicable
FLAMMABILITY LIMITS: Not Applicable
EXTINGUISHER MEDIA: Not Combustible
SPECIAL FIRE FIGHTING PROCEDURES: Not Applicable
UNUSUAL FIRE & EXPLOSION HAZARDS: Not Applicable

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
INCOMPATIBILITY: Not Applicable
CONDITIONS TO AVOID: Temperatures above 212°F (100°C)
HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials, carbon monoxide, carbon dioxide, and oxides of nitrogen.
HAZARDOUS POLYMERIZATION: Will Not Occur

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:	FIRST AID PROCEDURES:
SKIN: Liquid, mist and vapor are corrosive to the skin and may cause severe burns or ulceration. Dilute solutions may cause burns.	SKIN: Remove contaminated clothing and flush exposed skin with soap and water for at least 15 minutes. Get medical attention promptly. Discard contaminated clothing and footwear.
EYES: Contact with liquid, mist or vapor may cause severe burns or ulceration.	EYES: Immediately flush eyes with large amounts of water for 15 minutes and get immediate medical attention. Speed in treatment is essential.
INHALATION: Vapor and mist may be irritating to the nose, throat and respiratory system and cause burns. Extreme exposure can be fatal.	INHALATION: Move to fresh air. Aid in breathing, if necessary, and get medical attention.
INGESTION: May cause severe mouth, throat and stomach burns. May be fatal if swallowed in large quantity.	INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Treat for acid ingestion. Never give anything by mouth to an unconscious person.

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: 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: Avoid skin contact. Neutralize and absorb with sand or inert material. Place in suitable container for disposal. Flush neutralized residues with water to sanitary sewer.
WASTE DISPOSAL METHODS: Corrosive. Dispose of in accordance with all federal, state and local regulations.
HAZARDOUS WASTE 40CFR261: Yes. Hazardous Waste Number: D002
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: KEEP OUT OF REACH OF CHILDREN.

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