



ADENA TECHNOLOGIES

# MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 08/18/10

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 5015	AD5015	CHEMICAL FAMILY:	SCALE AND CORROSION TREATMENT		
GENERIC NAME:			FORMULA:	PROPRIETARY	NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
SUPPLIER'S NAME:	ADENA TECHNOLOGIES		PHONE NUMBER:	(888) 247-2312	HEALTH	3
SUPPLIER'S ADDRESS:	101 TECHNOLOGY LANE EXPORT, PA 15632		EMERGENCY NO.:	(800) 255-3924	FLAMMABILITY	0
			DATE PREPARED:	06/19/07	REACTIVITY	0
SHIPPING NAME:	CORROSIVE LIQUID, N.O.S. (SULFURIC ACID, POLYMALEIC ACID), 8, UN 1760, PG II			MAX PERSONAL PROTECTION		---

## SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SEC. 313	PEL	TWA-TLV	STEL-TLV
Polymaleic Acid	No	26099-09-2	<5	No	N/E	N/E	
Sulfuric Acid	No	7664-93-9	<20	Yes	1 mg/m3	1 mg/m3	
1-Hydroxyethylidene-1, 1-Diphosphonic Acid	No	2809-21-4	<5	No	N/E	N/E	

## SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

## SECTION 3 - FIRE/EXPLOSION HAZARD DATA

BOILING POINT @ 760 mmHg: 212°F (100°C) / ND  
 VAPOR PRESSURE @20°C (mmHg): ND  
 VAPOR DENSITY (air = 1): >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.

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: N/A

## SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable  
 INCOMPATIBILITY: N/A  
 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:	May cause irritation upon contact. Chemical burns are possible.	SKIN:	Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Discard contaminated clothing and footwear.
EYES:	May cause irritation and burns upon contact.	EYES:	Immediately flush eyes with large amounts of water for 15 minutes and get medical attention. Speed in treatment is essential.
INHALATION:	Mists are irritating to nose and throat. Contact can result in chemical burns.	INHALATION:	Move to fresh air. Aid in breathing, if necessary, and get medical attention.
INGESTION:	May cause irritation and burns to mouth and throat.	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: 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: 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 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.  
 OTHER PRECAUTIONS: Hazardous waste 40CFR261. Hazardous waste number D002. 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.