ADENA TECHNOLOGIES

EFFECTIVE DATE: 05/02/02

MATERIAL SAFETY DATA SHEET

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 8001 AD8001**	CHEMICAL FAMILY:	CHLORINE SOLUTION
GENERIC NAME:	SODIUM HYPOCHLORITE 15%, LIQUICLOR 12.5%	FORMULA:	PROPRIETARY
SUPPLIER'S NAME:	ADENA TECHNOLOGIES	PHONE NUMBER:	(888) 247-2312
SUPPLIER'S ADDRESS:	101 TECHNOLOGY LANE EXPORT, PA 15632	EMERGENCY NO.:	(800) 255-3924
SHIPPING NAME:	CONSUMER COMMODITY (ORM-D)		

NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	3
FLAMMABILITY	0
REACTIVITY	1
MAX PERSONAL PROTECTION	---

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	<25	No	2mg/m3	2mg/m3	

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	220ºF (105ºC)
VAPOR PRESSURE:	ND
VAPOR DENSITY:	ND
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY @20ºC :	1.24
pH RANGE:	12.7
EVAPORATION RATE (Water=1) :	0.7
VOLATILE RATE:	75%
PHYSICAL DESCRIPTION:	Dark amber liquid with faint odor.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

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: Material is strongly alkaline. Beware of exploding drums due to expansion.
SPECIAL FIRE FIGHTING PROCEDURES: N/A

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY:	Stable
INCOMPATIBILITY:	Strong acids. Sodium hydroxide reacts with zinc, aluminum, tin and other active metals liberating flammable hydrogen gas.
CONDITIONS TO AVOID:	Temperatures above 212ºF (100ºC).
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:

SKIN:	May cause burns or irritation.
EYES:	Contact will cause alkali burns.
INHALATION:	Irritation to mucousal passages, pulmonary edema can occur.
INGESTION:	Corrosion of esophageal passages likely.

FIRST AID PROCEDURES:

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:	Immediately flush with large amounts of water for 15 minutes and get medical attention.
INHALATION:	Move to fresh air. Aid in breathing, if necessary, and get medical attention.
INGESTION:	If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. 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.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:	Avoid skin contact. Neutralize with appropriate material and absorb with sand or inert material. Place in suitable container for disposal. Flush neutralized residues 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.

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