



ADENA TECHNOLOGIES

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 6922/CDB56 AD6922 CHEMICAL FAMILY:
 GENERIC NAME: 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

PROPER SHIPPING NAME:

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

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SARA III	PEL	TWA-TLV	STEL-TLV
Sodium Dichloroisocyanurate, Dihydrate		51580-86-0	99-100				
Sodium Chloride		7647-14-5	0-1				

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N/A
 VAPOR PRESSURE: N/A
 VAPOR DENSITY: N/A
 SOLUBILITY IN WATER: 29% @30°C
 SPECIFIC GRAVITY @20°C: 0.96
 pH RANGE: 6.0-6.5
 EVAPORATION RATE (Water=1): N/A
 PHYSICAL DESCRIPTION: White granular powder, chlorine-like odor

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

AUTO IGNITION TEMP: N/A
 FLASH POINT: N/A
 FLAMMABILITY LIMITS: N/A
 EXTINGUISHER MEDIA: N/A
 SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers exposed to fire. On small fires, use water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishments can be accomplished. Do not use dry chemical extinguisher containing ammonium compounds. Fire fighting situations require use of a Self-Contained Breathing Apparatus (SCBA), impermeable clothing, chemical resistant footwear, and chemical resistant gloves.
 UNUSUAL FIRE & EXPLOSION HAZARDS: N/A

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
 HAZARDOUS POLYMERIZATION: Will not occur
 INCOMPATIBILITY: Other oxidizers, organic materials, reducing agents, acids, bases, nitrogen containing compounds, dry fire extinguishers containing compounds, dry fire extinguishers containing mono-ammonium phosphates.
 CONDITIONS TO AVOID: N/A
 HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen trichloride, chlorine, carbon monoxide

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:

SKIN: Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling, and scab formation. Prolonged skin exposure may cause permanent damage. Repeated skin exposure may cause tissue destruction due to the corrosive nature of the product.

EYES: Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

INHALATION: Inhalation of this material is irritating to the nose, throat, and lungs. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage. Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.

INGESTION: Irritation and/or burns can occur to the gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation. Chronic ingestion of significant amounts of this product is unlikely because of its acute corrosive action.

FIRST AID PROCEDURES:

SKIN: Immediately flush with water for at least 15 minutes. Call a physician. If clothing comes in contact with the product, the clothing should be removed immediately and should be laundered before re-use.

EYES: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Call a physician at once.

INHALATION: If person experiences nausea, headache or dizziness, person should stop work immediately and move to fresh air until these symptoms disappear. If breathing is difficult, administer oxygen, keep the person warm and at rest. Call a physician. In the event that an individual inhales enough vapors to lose consciousness, person should be moved to fresh air at once and a physician should be called immediately. If breathing has stopped, artificial respiration should be given immediately. In all cases, ensure adequate ventilation and provide protection before the person returns to work.

INGESTION: Immediately drink large quantities of water. DO NOT induce vomiting. Call a physician at once. DO NOT give anything by mouth if a person is unconscious or if having convulsions.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION:	A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. When dusty conditions are encountered, wear a NIOSH/MSHA approved full-face respirator equipped with chlorine cartridges and a dust/mist type pre-filter.
VENTILATION:	Use local exhaust ventilation to minimize dust and chlorine levels where Industrial use occurs. Otherwise, ensure good general ventilation.
PROTECTIVE GLOVES:	Avoid contact with skin. Neoprene gloves should be worn when using this substance. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.
EYE PROTECTION:	Use chemical safety glasses (ANSI Z87.1 or approved equivalent). Where industrial use occurs, chemical goggles may be required.
OTHER PRECAUTIONS:	Eye wash station and safety shower should be provided in the area where product is handled during industrial use.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:	<p>For small spills in well-ventilated areas, wear a NIOSH approved half-face or full-face tight fitting respirator or a loose fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using half-face respirator. In addition to respiratory protection, wear coveralls; chemical resistant gloves; chemical resistant footwear; and chemical resistant headgear for overhead exposure. For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering entire body to prevent personal contact with this material.</p> <p>CAUTION – Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container the formation of nitrogen trichloride gas may occur and an explosive condition may exist.</p> <p>AIR REASE: Vapors may be suppressed by the use of a water fog.</p> <p>WATER RELEASE: This material is heavier than water. This material is soluble in water. Stop flow of material into water source as soon as possible. Begin monitoring for available chlorine and pH immediately.</p> <p>LAND SPILL: Do not contaminate spill material with any organic materials, ammonia, ammonium slats or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean, dry container. As a non-hazardous solid waste it should be disposed of in accordance with local, state and federal regulations by treatment in a wastewater treatment system. Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.</p>
WASTE DISPOSAL METHODS:	Store in cool, dry, well ventilated area. Do not store at temperatures above 60°C/140°F. Product has an indefinite shelf life if stored at room temperature. Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash off with water.
PRECAUTION IN STORAGE AND HANDLING:	

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