


# Safety Data Sheet

Adena 6315

## SECTION I - IDENTIFICATION

	Adena Technologies 101 Technology Lane Export, PA 15632 (888) 247-8082 CHEMTEL :..... (800) 225-3924
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Product Number	AD6315
Product Name	Adena 6315
Chemical Family	Compound, industrial process water treating, liquid
CAS Number	Multiple
Date Prepared	6/11/2015
Revision Number	6/11/2015
Recommended Use	Biocides

## SECTION II - HAZARDOUS IDENTIFICATION

### GHS CLASSIFICATION:

#### Classification

Skin Corrosion/Irritation	Category 1A, B, C
Sensitization, Skin	Category 1
Serious Eye Damage/Eye Irritation	Category 1

### DANGER!

#### GHS LABEL:



#### Hazard Statements

H314	Causes severe burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

### **Precautionary Statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash... thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352	IF ON SKIN: Wash with plenty of water/...
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see ... on this label).
P333+313	If skin irritation or a rash occurs: Get medical advice/attention.
P362+364	Take off immediately all contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to...

### **SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS**

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Nitric acid	7697-37-2	0.02	2.000000 ppm	2.000000 ppm
2-METHYL-4-ISOTHIAZOLIN-3-ONE	2682-20-4	0.348-0.58	Not Listed	Not Listed
NITRIC ACID, COPPER(2+)SALT(2:1)	3251-23-8	0.212	Not Established	Not Established
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	1.16-1.392	Not Established	Not Established
MAGNESIUM NITRATE	10377-60-3	1.856-2.436	Not listed	Not listed

### **SECTION IV - FIRST AID MEASURES**

**Contact with eyes:** Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

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- Skin contact:** Wash exposed area with plenty of water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists, consult a health care professional.
- Inhalation:** If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.
- Ingestion:** Do not induce vomiting. Rinse with copious amounts of water or milk first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, do not give fluids by mouth. In case of intentional ingestion of the product, seek medical assistance immediately; take individual to nearest medical facility.

### SECTION V - FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog, foam, CO<sub>2</sub>, dry chemical.

**Special Fire Fighting Procedures** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surface should be exposed. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Special protective action for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Unusual Fire Fighting Hazards:** None known.

Hazardous Decomposition Products: Decomposition products may include the following materials: Carbon dioxide, Carbon Monoxide, Nitrogen Oxide, Sulfur Oxide, Halogenated Compounds, and Metal Oxide/Oxides

### SECTION VI - ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. (Also see Section 8).  
Wear suitable protective equipment. Do not touch damaged containers or spilled material unless wearing suitable protective clothing.
- Environmental Precautions:** Ventilate area of spill or release. Absorb small spills with suitable material (vermiculite, sand, clays, earth, etc.) And place into leak-proof container for later disposal. Flush balance of area with water. Dispose of all material in accordance with federal, state, and local laws.
- Methods for Cleaning Up:** Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively; if water-insoluble, absorb with an inert dry material and place in an appropriate

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waste disposal container. Dispose of via a licensed waste disposal contractor. Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### SECTION VII - HANDLING AND STORAGE

#### Handling and Storage:

- Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Satisfactory Materials of Construction: Teflon, Buna-N rubber, Viton, EPDM rubber, PVC - flexible Neoprene, Polyethylene - low density, Tygon R3603, Tyril 880, Silicone rubber, Stainless steels 304 and 316, Polyethylene - high density, Polyethylene crosslink, Polypropylene, PVC – rigid, Butyl rubber, ABS (Plastic), Dow Sillastic Tube, Rehau Tube, Polyurethane Liner, Norprene Tubing, FRP G-10, Pharmed Tubing.  
NOTE: With respect to all other materials not listed above, user should be aware that use of such materials with this product may be hazardous and result in damages to such materials and other property and personal injuries. No data concerning such materials not listed above should be implied by the user.

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### SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

#### EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Nitric acid	7697-37-2	2.000000 ppm	2.000000 ppm
2-METHYL-4-ISOTHIOLIN-3-ONE	2682-20-4	Not Listed	Not Listed
NITRIC ACID, COPPER(2+) SALT(2:1)	3251-23-8	Not Established	Not Established
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	Not Established	Not Established
MAGNESIUM NITRATE	10377-60-3	Not listed	Not listed

**Engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Monitoring:** When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Personal Protective Equipment (PPE)

**Eye Protection:** Wear chemical safety goggles and face shield where splashing is possible OSHA'S eye and face protection regulations in 29 CFR 1910.133. Have eye-wash stations available where eye contact can occur.

**Skin Protection:** Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. A safety shower should be located in the work area.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge and full face-piece. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Green to Pale Yellow Liquid
Odor	Pungent. [Strong]
pH@25°C	2.5-5.0
Melting/Freezing Point	-3 °C (26.6 °F)
Flashpoint	Closed cup; >100 °C (>212 °F) [Pensky-Martens.]
Specific Gravity	1.03
Solubility	Complete
Auto-Ignition Temperature	No Data
Decomposition Temperature	No Data
VOC Content	No Data
Odor Threshold	No Data
Boiling Range	212°F @ 760mm Hg
Evaporation Point	No Data
Flammable Limits - Upper	No Data
Flammable Limits - Lower	No Data
Vapor Pressure	0.01 mm Hg (ambient)
Vapor Density (Air=1)	No Data
Viscosity	3-5 cP

### SECTION X - STABILITY AND REACTIVITY

**Stability:** Stable, under normal conditions of storage and handling.

**Conditions to Avoid:** No specific data

**Hazardous Decomposition/Byproducts:** No specific test data related to reactivity available for this product or its ingredients. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous Polymerization:** Will not occur.

**Polymerization Conditions to Avoid:** None

**Incompatibilities:** no specific data

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### SECTION XI - TOXICOLOGICAL INFORMATION

**Likely Route of Exposure:** Inhalation, Skin, Eye, Ingestion.

**Inhalation:** No known significant effects or critical hazards.

**Eye Contact:** Adverse symptoms may include the following: pain watering redness

**Skin Contact:** Adverse symptoms may include the following: pain or irritation redness blistering may occur

**Ingestion:** No known significant effects or critical hazards.

**Acute Toxicity Value:** Eye Contact: Causes serious eye damage. Adverse Symptoms: Pain, watering, redness. Skin Contact: Causes severe burns. May cause an allergic skin reaction. Adverse Symptoms: Pain, irritation, redness, blistering. Inhalation: No known significant effects or critical hazards. Ingestion: No known significant effects or critical hazards. Adverse Symptoms: Stomach pains.  
M-1015: Acute LC50 0.16 mg/l Daphnia 48 hours, Acute LC50 0.19 mg/l Fish 96 hours, Acute LC50 0.28 mg/l Fish 96 hours, Acute LC50 0.3 mg/l Fish 96 hours, Acute LC50 0.55 mg/l Fish 96 hours, Acute LC50 1.9 mg/l Fish 96 hours

**Chronic (Long Term) Effects:** See Health Hazards above.

#### Toxicity:

Component Name	LD50	LC50
Nitric acid	Not Established	Not Established
2-METHYL-4-ISOTHI)OLIN-3-ONE	No data available	No data available -
NITRIC ACID, COPPER(2+) SALT(2:1)	Oral- Rat- 794 mg/kg;	Not Established
5-CHLORO-2-METHYL-4-ISOTHIA)OLIN-3-ONE	Dermal Rabbit- Busan 1078: >5000 mg/kg-Oral Rat- 794	Inh.Rat- Busan 1078:1.5 mg/l Female)(Gas)
MAGNESIUM NITRATE	No Data	No Data

**Reproductive Effects** Not Applicable

**Teratogenicity** Not Applicable

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<b>Mutagenicity</b>	Not Applicable
<b>Embryotoxicity</b>	Not Applicable
<b>Sensitization to Product</b>	Not Applicable
<b>Synergistic Products</b>	Not Applicable
<b>Carcinogenicity</b>	Magnesium Nitrate (2A), Nitric acid, copper(2+) salt (2:1) (2A) IARC

### SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicity:** Acute LC50 0.16 mg/l Daphnia 48 hours, Acute LC50 0.19 mg/l Fish 96 hours,

**Mobility:** Information not available.

**Degradability:** Information not available.

**BioAccumulation:** Information not available.

### SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Disposal instructions: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Use EPA guidelines for the classification determination listed in 40 CFR parts 261.3. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: disposal instructions). Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. RCRA classification: D002, 100LBS.

### SECTION XIV - TRANSPORT INFORMATION

#### DOT SHIPPING INFORMATION

**Proper Shipping Name:** Corrosive liquid, acidic, organic, n.o.s.  
**Contains:** (5-Chloro-2-methyl-4-isothiazolin-3-one, 2Methyl-4-isothiazolin-3-one) RQ (copper dinitrate)  
**Hazard Class and Label:** 8  
**Identification Number:** UN3265  
**Packaging Group:** II  
**Other Shipping Info:** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.



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SPECIAL PRECAUTIONS FOR USER: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:**..... The components of this product are listed on the TSCA Inventory

**SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:**

Component Name	CAS #	% by wt.	RQ (lbs.)	TPQ (lbs.)
Nitric acid	7697-37-2	0.02	1000/ 85.7 gal.	1,000/ 85.7 gal.

**SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:**

Acute	Chronic	Fire	Pressure	Reactive
X	X			

**SARA TITLE III SECTION 313 SUPPLIER INFORMATION:**

Component Name	CAS #	% by wt.
Nitric acid	7697-37-2	0.02
Magnesium Nitrate	10377-60-3	1.856-2.436

**CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:**

Component Name	CAS #	% by wt.	RQ (lbs.)
Nitric acid	7697-37-2	0.02	1,000
Cupric Nitrate	3251-23-8	0.212	100

**CALIFORNIA PROPOSITION 65:**

No chemicals in this material are subject to the reporting requirements.

### SECTION XVI - OTHER INFORMATION

**HMIS Health:**..... 3

**HMIS Flammability:** ..... 0

**HMIS Reactivity:**..... 0

**Additional:** U.S. Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from US Toxic Substances Control Act (TSCA) Inventory listing requirements. Clean Water Act (CWA) 311: di-Methylamine CERCLA Hazardous Substance List (40 CFR 302.4): di-Methylamine FDA: This product is not allowed for food contact uses EPA Reg. No.: 1448-381 FIFRA: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non- pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

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DANGER: Corrosive. Causes eye and skin damage. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Avoid Contamination of food. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Disclaimer: The information contained herein is accurate to the best of our knowledge. No warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

FDA: This product is allowed under the following FDA (21CFR) sections:

175.105-Limitations: For use only as an antimicrobial agent in polymer latex emulsions. / 175.300, 175.320 Limitations. For use only as an antimicrobial agent in emulsion-based silicon coating at a level not to exceed 50 mg active ingredient/Kg in the coating formulation. / 176.170, 176.180-Limitations: For use only 1 as an antimicrobial agent for polymer latex emulsions in paper coating at a level not to exceed 50 ppm active ingredient in the coating formulation and 2 as an antimicrobial agent for finished coating and for additives used in the manufacture of paper and paperboard including fillers, binders, pigment slurries, and sizing solutions at a level not to exceed 25 ppm active ingredient in the coating formulations and additives. / 176.300-Limitations: Not to exceed 2.5 pounds per ton of dry weight fiber.. BfR: XIV, XXXVI, XXXVI/1 EPA Reg. No.: 1448-348 DANGER: Corrosive. Causes eye damage and skin burns. May cause allergic skin reaction. Harmful if inhaled. Harmful if swallowed. Do not get in eyes, on skin, on clothing. Mixers, loaders and others exposed to this product must wear: long-sleeved shirt and long pants; chemical resistant gloves such as nitrile or butyl rubber; shoes plus socks; goggles and face shield; and chemical resistant apron. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists use detergent and hot water. Keep and wash PPE separately from other laundry. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. This product may cause skin sensitization reactions in some people. ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For

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guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on the label.

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed. CERCLA:

Hazardous substances.: nitric acid; copper dinitrate: 100 lbs. (45.4 kg);