

SECTION I - IDENTIFICATION



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Product Number AD6122
Product Name Adena 6122
Chemical Family Bleaching agent; water treatment; disinfectant
CAS Number Multiple
Date Prepared 11/2/2015
Revision Number 11/2/2015
Recommended Use Bleaching agent; water treatment; disinfectant

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Skin Corrosion/Irritation	Category 1A, B, C
Serious Eye Damage/Eye Irritation	Category 1
Hazardous to the aquatic environment, acute hazard	Category 1
Hazardous to the aquatic environment, long-term hazard	Category 1

DANGER!

GHS LABEL:



Hazard Statements

H314	Causes severe burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash... thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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).
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
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
Other components below reportable levels	None Listed	Balance	Not Established	Not Established
Sodium hypochlorite	7681-52-9	10-20	2 mg/m ³	Not Established
Sodium Hydroxide	1310-73-2	2.5-10	2 mg/m ³ , Ceiling	2 mg/m ³ , Ceiling

SECTION IV - FIRST AID MEASURES

Contact with eyes: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

Skin contact: Take off immediately all contaminated clothing. Wash off with plenty of water for at least 15-20 minutes. Get medical attention if irritation persists. Wash clothing before reuse.

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.

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Ingestion:

Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Water fog, foam, CO₂, dry chemical.

Do not use water jet as an extinguisher, as this will spread the fire.

Special Fire Fighting Procedures

Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

Unusual Fire Fighting Hazards:

Not combustible. Under fire conditions, toxic, corrosive fumes are emitted.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Environmental Precautions:

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods for Cleaning Up:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water. Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

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- Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Other components below reportable levels	None Listed	Not Established	Not Established
Sodium hypochlorite	7681-52-9	2 mg/m ³	Not Established
Sodium Hydroxide	1310-73-2	2 mg/m ³ , Ceiling	2 mg/m ³ , Ceiling

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: 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: Do not get in eyes. Wear chemical goggles and face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection: Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Clear to pale yellow, liquid
Odor	Chlorine
pH@25°C	12.5 (1% w/w)
Melting/Freezing Point	3 °F (-16.11°C) {12.5%NaOCl}
Flashpoint	Not available
Specific Gravity	1.2
Solubility	Soluble
Auto-Ignition Temperature	Not available.
Decomposition Temperature	Not available.
VOC Content	Not available
Odor Threshold	Not available
Boiling Range	<230°F (<110°C)
Evaporation Point	Not available
Flammable Limits - Upper	Not available
Flammable Limits - Lower	Not available
Vapor Pressure	12 mm Hg @25 °C (12.5% NaOCl}
Vapor Density (Air=1)	Not available.
Viscosity	Not available

SECTION X - STABILITY AND REACTIVITY

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

Conditions to Avoid: Do not mix with other chemicals. Contact with incompatible materials.

Hazardous Decomposition/Byproducts: Chlorine. Hydrogen chloride.

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None

Incompatibilities: Acids. Oxidizing agents. Bases, alkalis (organic).

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SECTION XI - TOXICOLOGICAL INFORMATION

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

Inhalation: Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

Eye Contact: Causes serious eye damage.

Skin Contact: Causes severe skin burns.

Ingestion: Causes digestive tract burns.

Acute Toxicity Value: ORAL- Mouse: 46400 mg/kg estimated. Rat: 71.28 g/kg estimated

Chronic (Long Term) Effects: Prolonged inhalation may be harmful.

Toxicity:

Component Name	LD50	LC50
Other components below reportable levels	Not Established	Not Established
Sodium hypochlorite	5800 mg/kg Oral Mouse, 8.91 g/kg Oral Rat	Not Established
Sodium Hydroxide	300-500 mg/kg, Oral, LD50 (Rat), >2000 mg/kg, Dermal	Not Listed

Reproductive Effects Not Applicable

Teratogenicity Not Applicable

Mutagenicity Not Applicable

Embryotoxicity Not Applicable

Sensitization to Product Not Applicable

Synergistic Products Not Applicable

Carcinogenicity

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: 40 mg/l, 96 hours Nittocra Spinipes Fasciatus 4 mg/l, 96 hours Gammarus Fasciatus 1153 mg/l, 48 hours estimated 0.07 - 0.7 mg/l, 24 hours magna

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0.006 mg/l, 24 hours Ceriodaphina sp. 12.4899 mg/l, 96 hours estimated

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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).

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.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Hypochlorite solutions

Contains:

Hazard Class and Label: 8

Identification Number: UN1791

Packaging Group: iii

Other Shipping Info: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

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:

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

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	N/A	N/A	N/A	N/A

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SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

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

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

Component Name	CAS #	% by wt.	RQ (lbs.)
Sodium hypochlorite	7681-52-9	10-20	100
Sodium Hydroxide	1310-73-2	2.5-10	1,000

CALIFORNIA PROPOSITION 65:

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

SECTION XVI - OTHER INFORMATION

HMIS Health:..... 3

HMIS Flammability:..... 1

HMIS Reactivity: 1

Additional: 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.