

Safety Data Sheet

Adena 5152

SECTION I - IDENTIFICATION



General Products & Supply, Inc.
Murrysville Industrial Park
Export, PA 15632
(888) 247-2312
CHEMTEL :..... (800) 255-3924

Product Number AD5152
Product Name Adena 5152
Chemical Family COMPOUND, INDUSTRIAL PROCESS WATER TREATING
CAS Number Multiple
Date Prepared 12/17/2015
Revision Number 12/17/2015
Recommended Use SCALE AND CORROSION INHIBITOR

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Corrosive to Metals	Category 1
Acute Toxicity, Oral	Category 4
Acute Toxicity, Dermal	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Acute Toxicity, Inhalation	Category 4
Hazardous to the aquatic environment, long-term hazard	Category 4

WARNING!

GHS LABEL:



Hazard Statements

H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H413	May cause long lasting effects to aquatic life

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Precautionary Statements

P234	Keep only in original packaging
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated are.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of water/...
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.
P312	Call a POISON CENTER or a doctor/physician if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P332+313	If skin irritation occurs: get medical advice/attention.
P337+313	If eye irritation persists get medical advice/attention.
P362+364	Take off immediatley all contaminated clothing and wash it before reuse.
p390	Absorb spillage to prevent material damage.
P406	Store in a corrosive resistant/... container with a resistant inner liner.
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
Sodium Molybdate Dihydrate	7631-95-0	< 1.0	5 mg/m ³	5 mg/m ³
Water	7732-18-5	Balance	Not Established	Not Established
Sodium Tolytriazole	64665-57-2	< 1.0	2 mg/m ³ (NaOH)	2 mg/m ³ (NaOH)
Potassium hydroxide	1310-58-3	4-6	2 mg/m ³ , Ceiling	2 mg/m ³ , Ceiling
Polymaleic homopolymer	26099-09-2	1.5-2.0	Not Established	Not Established
Acrylic Copolymers	NONE LISTED	2-4	Not Established	Not Established

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SECTION IV - FIRST AID MEASURES

Contact with eyes: In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both

Skin contact: For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Avoid Mouth to mouth resuscitation Seek immediate medical attention.

Ingestion: If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Obtain medical attention immediately if ingested. Do not use mouth-to-mouth method if victim ingested the substance. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Persons attending the victim should avoid direct contact with heavily contaminated clothing and vomitus.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: As appropriate for the surrounding 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. Hazardous Combustion Products: Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Oxides of carbon, nitrogen and phosphorus.

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).

Environmental Precautions: Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Notify proper authorities.

Methods for Cleaning Up: Small spills should be absorbed with a suitable dry inert material (such as sand or earth) or a neutralizing material (such as limestone, lime, sodium bicarbonate or soda ash). Take care to avoid any foaming or splattering that may occur from the neutralization reaction of the acid with these materials. Remove the absorbed material and place in an appropriate chemical waste container for proper disposal. Large spills should be diked to prevent spreading. Keep water away from spill. Pump spilled material to salvage according to a predetermined plan. Remove residual material as described above. Washing down of spills

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with water is not recommended because this tends to spread the contamination and increase the likelihood of percolating the acid down through the soil and/or of uncontrolled flow of acid into sewers, streams or other waters. Sulfuric acid leaks, spills or drainings must not contact any acid soluble sulfide wastes (such as sewers) because of the danger of evolving hydrogen sulfide gas.

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use.
- Store the container in a cool, dry, well ventilated area. Store the container away from incompatible materials. Store the container at ambient temperature. Keep containers tightly closed and upright when not in use. Protect against physical damage. Empty containers may contain toxic, residue or vapors. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Sodium Molybdate Dihydrate	7631-95-0	5 mg/m ³	5 mg/m ³
Acrylic Copolymers	NONE LISTED	Not Established	Not Established
Sodium Tolytriazole	64665-57-2	2 mg/m ³ (NaOH)	2 mg/m ³ (NaOH)
Potassium hydroxide	1310-58-3	2 mg/m ³ , Ceiling	2 mg/m ³ , Ceiling
Polymaleic homopolymer	26099-09-2	Not Established	Not Established
Water	7732-18-5	Not Established	Not Established

Engineering Controls: Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment.

Monitoring: Do not eat, drink or smoke in areas where this chemical is used or stored. Any clothing or shoes which became contaminated with the product should be removed immediately and thoroughly laundered before wearing again. Have eye wash stations and safety showers readily available.

Personal Protective Equipment (PPE)

Eye Protection: Wear chemical safety goggles and face shield. 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.

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Respiratory Protection: If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Engineering controls are the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, yellow liquid
Odor	Musty
pH@25°C	11.5-13.5
Melting/Freezing Point	No Data
Flashpoint	Not Flammable
Specific Gravity	1.04 g/ml
Solubility	Complete at 20°C
Auto-Ignition Temperature	No Data
Decomposition Temperature	No Data
VOC Content	~90% (Water)
Odor Threshold	No Data
Boiling Range	100-110°C @ 760 mm Hg
Evaporation Point	(water=1): similar to water
Flammable Limits - Upper	N/A
Flammable Limits - Lower	N/A
Vapor Pressure	No data
Vapor Density (Air=1)	Similar to water
Viscosity	20-40 cP @ 25°C

SECTION X - STABILITY AND REACTIVITY

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

Conditions to Avoid: Contact with incompatible materials.

Hazardous Decomposition/Byproducts: Thermal decomposition products may include oxides of carbon, phosphorous and nitrogen.

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None

Incompatibilities: Strong oxidizing agents, strong reducing agents, strong acids and certain metals

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SECTION XI - TOXICOLOGICAL INFORMATION

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

Inhalation: Under normal conditions of use, no health effects are expected.

Eye Contact: Causes eye irritation including stinging, watering and redness which may result in corneal injury.

May cause severe conjunctival irritation and corneal damage.

Skin Contact: Contact may cause mild stinging irritation including redness, burning and drying/cracking of the skin.

Ingestion: Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.

May cause gastrointestinal irritaion with nausea, vomiting and diarrhea.

Acute Toxicity Value: Acute Toxicity Values Oral LD50 (Rat) = > 2000 mg/kg Dermal LD50 (Rabbit) = > 2000 mg/kg Inhalation LC50 (Rat) = > 2000 ppm/4 hr.

Chronic (Long Term) Effects: Repeated or prolonged exposure to corrosive materials or fumes may cause Gastrointestinal disturbances.

Repeated or prolonged exposure may cause dermatitis.

Repeated or prolonged exposure to this materials or fumes may cause conjunctivitis.

Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Toxicity:

Component Name	LD50	LC50
Sodium Molybdate Dihydrate	Oral, rat 3400 mg/kg, Dermal, rat >2,000 mg/kg,	Inhalation, rat, 4h, 1768 mg/m ³
Acrylic Copolymers	Not Established	Not Established
Sodium Tolytriazole	Mouse 40 mg/kg	Not Established
Potassium hydroxide	Oral - Rat - 333 mg/kg	Not Established
Polymaleic homopolymer	Oral LD50: 15000 mg/kg (rat)	Not Established
Water	Not Established	Not Established

Reproductive Effects Not Applicable

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Teratogenicity	Not Applicable
Mutagenicity	Not Applicable
Embryotoxicity	Not Applicable
Sensitization to Product	Not Applicable
Synergistic Products	Not Applicable
Carcinogenicity	Not Applicable

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: AQUATIC TOXICITY BLUEGILL: >500 MG/L, LC50, 48 HR FATHEAD
MINNOW: >500 MG/L, LC50, 48 HR CERIODAPHNIA MAGNA: >200 MG/L,
LC50, 48 HR

Mobility: Information not available.

Degradability: Expected to biodegrade.

BioAccumulation: Information not available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. This material is not considered an EPA hazardous waste.
EA "RCRA" Hazardous Waste Code: N/A

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

Contains: Potassium Hydroxide

Hazard Class and Label: 8

Identification Number: UN3266

Packaging Group: III

Other Shipping Info: 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.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not established.

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:

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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	X

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.)
Potassium Hydroxide	1310-58-3	4-6	1,000

CALIFORNIA PROPOSITION 65:

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

SECTION XVI - OTHER INFORMATION

HMIS Health:..... 2

HMIS Flammability: 0

HMIS Reactivity: 1

Additional: Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated. Safe Drinking Water Act (SDWA): Not regulated. Food and Drug Administration (FDA): Not regulated. U.S. State Regulations U.S. Massachusetts RTK - Substance List Potassium hydroxide (CAS 1310-58-3) U.S. New Jersey Worker and Community Right-to-Know Act Not regulated. U.S. Pennsylvania RTK - Hazardous Substances Potassium hydroxide (CAS 1310-58-3) U.S. Rhode Island RTK Potassium hydroxide (CAS 1310-58-3) U.S. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. US California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) Listed substance Not listed.

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.

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