

# OSHA GHS SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product identifier:** ECA-500 Solution (Ag and Food Processing Sanitizer)

**EPA Registration Number:** Solution of EPA registered product 91138-1 (ECA-500 in water)

**Recommended use:** Sanitizer

**Restrictions on use:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Manufacturer:** ECA Water Systems, LLC  
115 Dansworth Lane  
Oak Ridge, TN 37830

**Telephone number:** 1 865-207-6545

**Emergency phone number:** 1 865-207-6545 (9 AM – 5 PM, M-F)

## 2. HAZARD(S) IDENTIFICATION

**Classification:**

Physical	Health
Not Hazardous	Not Hazardous

**OSHA/GHS Labeling:** None.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No	Concentration
Water	7732-18-5	>99%
Hypochlorous acid (hydrolyzed from Sodium Dichloroisocyanurate Dihydrate)	7790-92-3	<1.0%

## 4. FIRST-AID MEASURES

**Inhalation:** If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, seek medical attention.

**Skin Contact:** Wash thoroughly with water. Seek medical attention if irritation develops.

**Eye Contact:** Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops.

**Ingestion:** If large amounts are ingested, seek medical attention.

**Most Important symptoms and effects, both acute and delayed:** May cause mild eye and skin irritation.

**Indication of any immediate medical attention and special treatment needed:** Immediate medical attention should not be required.

## 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use media suitable to for surrounding materials.

**Specific hazards arising from the chemical:** None expected.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Keep unnecessary personnel away. Wear appropriate protective clothing and equipment (see section 8). Avoid contact with eyes.

**Environmental precautions:** Avoid entry in storm sewers and waterways. Report spill as required by local and national regulations.

**Methods and materials for containment and cleaning up:** Collect spilled liquid with and absorbent material and place in a suitable container for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid eye contact. Avoid prolonged skin contact. Avoid breathing mist or spray. Wash exposed skin with soap and water after use.

This product is a hydrolyzed solution of EPA registered product ECA-500 (Registration number 91138-1) Refer to ECA-500 EPA approved label and SDS for additional information for product use.

**Conditions for safe storage, including any incompatibilities:** Store and handle in accordance with all current regulations and standards. Read and follow product label instructions. Stable for up to 30 days after making. Discard after 30 days and make fresh solution.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines:

Water	None Established
Hypochlorous acid	None Established

**Appropriate Engineering Controls:** Use in well-ventilated areas. Provide mechanical ventilation where excessive exposure concentrations may be generated.

**Respiratory Protection:** None required for normal use. If exposures are excessive, wear an approved respirator (mask). Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with all applicable regulations; and good Industrial Hygiene practice.

**Hand Protection:** None required for normal use. Wear appropriate chemical resistant gloves for prolonged skin contact.

**Skin Protection:** None required for normal use.

**Eye Protection:** Follow facility requirements.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear liquid
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<b>Odor:</b>	Very slight chlorine
<b>Odor Threshold:</b>	Not determined
<b>pH:</b>	5-7
<b>Melting/Freezing Point:</b>	~0°C (~32°F)
<b>Boiling Point:</b>	~100°C (~212°F)
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate: (n-butylacetate =1)</b>	Not determined
<b>% Volatile by Volume:</b>	>99
<b>Lower Flammability Limit: Upper Flammability Limit:</b>	Not applicable
<b>Vapor Pressure:</b>	Not determined
<b>Vapor Density(Air=1):</b>	Not determined
<b>Solubility:</b>	Soluble in water
<b>Autoignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity:</b>	Water like
<b>Explosive Properties:</b>	None
<b>Oxidizing Properties:</b>	Not determined
<b>Specific Gravity (H<sub>2</sub>O= 1):</b>	1.00-1.08
<b>Concentration</b>	0-10000 ppm

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal temperatures and pressures.

**Chemical Stability:** Stable at normal temperatures and pressures.

**Possibility of Hazardous Reactions:** None expected.

**Conditions to Avoid:** None expected.

**Incompatible Materials:** Acids, reducing agents, ammonia, and urea.

**Hazardous Decomposition Products:** Chlorine and carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

### Acute effects of exposure:

**Inhalation:** May cause mild irritation.

**Ingestion:** May cause gastrointestinal upset.

**Skin contact:** Repeated and prolonged skin contact may cause mild irritation. Not a skin sensitizer.

**Eye contact:** May cause mild irritation.

**Chronic effects:** None known

**Carcinogenicity:** None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP or OSHA

**Germ cell mutagenicity:** Not mutagenic.

**Reproductive Toxicity:** No adverse effects on reproduction are known.

**Numerical measures of toxicity:**

Hypochlorous acid: Not acutely toxic

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Intended for use as a sanitizer.

**Persistence and degradability:** This material is biodegradable.

**Bioaccumulative potential:** This material is not bioaccumulative.

**Mobility in soil:** No data available.

**Other adverse effects:** This product is a hydrolyzed solution of EPA registered product ECA-500 (Registration number 91138-1) Refer to ECA-500 EPA approved label and SDS for additional information.

## 13. DISPOSAL CONSIDERATIONS

Pesticide Disposal: Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. **This product is a hydrolyzed solution of EPA registered product ECA-500 (Registration number 91138-1) Refer to ECA-500 EPA approved label and SDS for additional information.**

## 14. TRANSPORT INFORMATION

This product is not regulated for transport.

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable.

Transported in packaged form only.

**Special precautions:** None known

## 15. REGULATORY INFORMATION

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.

**FIFRA Labeling:** This product is a hydrolyzed solution of EPA registered product ECA-500 (Registration number 91138-1) Refer to ECA-500 EPA approved label and SDS for additional information.

**Safety, health, and environmental regulations specific for the product in question.**

**CERCLA:** Not regulated.

**SARA Hazard Category (311/312):** Classified as per Section 2 of this SDS

**SARA 313:** Not regulated

**EPA TSCA Inventory:** This product is a pesticide and not subject to TSCA. Not subject to export notification.

**CANADA:**

**Canadian CEPA:** All components of this product are listed on either the DSL or the NDSL.

<b>16. OTHER INFORMATION</b>
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**SDS Revision History:** New SDS

**Date of preparation:** May 12, 2020

**Date of previous revision:** New SDS him

**NOTICE**

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. ECA Water Systems, LLC shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.