

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION



PRODUCT: eFFectant®

GENERAL DESCRIPTION: Electro-Chemically Activated solution of Sodium chloride (0.5% or less)
 RECOMMENDED USE: Hard Surface Disinfectant
 SUPPLIER/MANUFACTURER: EcoLogic Solutions Holdings Inc.
 ADDRESS: 63 Flushing Ave, Unit 267, Brooklyn, NY 11205
 CHEMICAL FAMILY NAME: Diluted Mixture of Oxychlorine Compounds
 U.N. NUMBER: None
 U.N. DANGEROUS GOODS CLASS: None
 EPA REG#: 86854-1-86492
EMERGENCY PHONE: **(800) 477-2577**
 BUSINESS PHONE: (718) 435-5422 (Product Information)
 E-MAIL: info@ecologicsolutions.com
 DATE OF PREPARATION: June 12, 2012
 DATE OF LAST REVISION: June 1, 2017

SECTION 2 – HAZARD IDENTIFICATION

THRESHOLD LIMIT: Not established
 ACUTE TOXICITY: Non-Toxic

GHS HAZARD SYMBOL:



(mild irritant in CONCENTRATE)

SIGNAL WORD: WARNING

PRECAUTIONARY STATEMENTS: This product in CONCENTRATE may cause mild irritation or aggravate a pre-existing condition

<u>HAZARD RATING</u>	HMIS	NFPA
HEALTH	0	0
FLAMMABILITY	0	0
REACTIVITY	0	0
SPECIAL	none	none

HEALTH HAZARDS: Exposure to this product in 'Ready to Use' form is **not expected to cause adverse health hazards.**

ENVIRONMENTAL HAZARDS: This product is not expected to cause adverse effects.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS #</u>	<u>EINECS #</u>	<u>% by Weight</u>
Water	7732-18-5	231-791-2	99.03
Hypochlorous Acid	7790-92-3	232-232-5	0.07

- **NO FRAGRANCE ADDED**
- **CONTAINS NO HAZARDOUS INGREDIENTS**

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: Non-flammable

AUTOIGNITION TEMPERATURE: Not Established

FLAMMABLE LIMITS: LOWER (LEL) None Established ; UPPER (UEL): None Established

FIRE-EXTINGUISHING MATERIALS: Use water, foam, dry chemical or carbon dioxide

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

EXPLOSION SENSITIVITY TO MECHANICAL IMPACT: Not Sensitive

EXPLOSION SENSITIVITY TO STATIC DISCHARGE: Not Sensitive

SPECIAL FIREFIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. Some localities allow this to be sent to open storm sewers, however local environmental regulatory requirements should be followed. If desired, spills can be washed to sewer with plenty of water, or neutralized by sodium sulfite or sodium thiosulfate. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 – HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

STORAGE AND HANDLING PRACTICES: Store in a cool dry location. Protect from physical damage.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMIT GUIDELINES: Not established

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable.

No protective equipment is required for normal use, though a face-mask or other appropriate measures may be taken to prevent aggravating a pre-existing condition.

EYE PROTECTION: No protective equipment is required for normal use, though safety glasses or chemical goggles may be worn to prevent aggravating a pre-existing condition

HAND PROTECTION: No protective equipment is required for normal use, though gloves may be worn to prevent aggravating a pre-existing condition.

BODY PROTECTION: No protective equipment is required for normal use

- *The information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*
- *If necessary, refer to U.S. OSHA 29 CFR 1910.133-138 or appropriate Standards of Canada CSA Z94.4-93 or the European Standard EN149, or EU member states.*

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	Clear, colorless with a chlorine like odor
ODOR THRESHOLD (PPM):	Not Applicable
VAPOR PRESSURE (mmHg):	Negligible
RELATIVE DENSITY:	1.0088
EVAPORATION RATE (nBuAc = 1):	Not Applicable
BOILING POINT (C°):	100°C (212°F)
MELTING/FREEZING POINT (C°):	0°C (32°F)
GENERATED pH at 700 ppm:	6 ± 0.3
SPECIFIC GRAVITY 20°C: (WATER =1)	1
SOLUBILITY IN WATER (%)	Complete

SECTION 10- STABILITY AND REACTIVITY

STABILITY: Stable

DECOMPOSITION PRODUCTS: When heated to decomposition this product produces carbon dioxide and carbon monoxide.

INCOMPATIBILITY: None known – ferrous metals and soft plastics will rust or degrade if exposed without being rinsed or wiped down afterward.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

SECTION 11- TOXICOLOGICAL INFORMATION

CARCINOGENICITY: None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin and eyes.

SENSITIZATION OF PRODUCT: This product is not considered a skin sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system

SECTION 12 – ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION. ENVIRONMENTAL STABILITY: No specific data is available for this product, however this product is expected to be readily biodegradable.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No evidence is currently available on this product's effects on plants or animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life.

SECTION 13- DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

RCRA WASTE CODE: Not Listed

EU WASTE CODE: Not Listed

SECTION 14 – TRANSPORT INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS GOODS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

PROPER SHIPPING

NAME: Non-Regulated

Material **HAZARD CLASS**

NUMBER and

DESCRIPTION: None **UN**

IDENTIFICATION

NUMBER: None

PACKING GROUP: None

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): None

MARINE POLLUTANT: These product ingredients are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is not classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is not classified as Dangerous Goods by the International Maritime Organization

SECTION 15- REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: No

Chronic Health: No

Fire: No

Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): None of the ingredients are on the California Proposition 65 lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as Not Controlled, as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION: EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed
Australian Inventory of Chemical Substances (AICS):	Listed
Korean Existing Chemicals List (ECL):	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed
Swiss Giftliste List of Toxic Substances:	Listed
U.S. TSCA:	Listed

SECTION 16- OTHER INFORMATION

Always follow label directions carefully when using this or any other chemical product. If information about this product is required, please contact EcoLogic Solutions at 1.800.477.2577 or visit our website at www.ecologicsolutions.com.

Keep Safety Data Sheets filed and organized in an area accessible to workers according to the Hazard Communication Standards.

All information contained in this Safety Data Sheet is provided to the best of EcoLogic Solutions knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the SDS are suitable for their intended use. The information contained herein is confidential, intended solely for the user's internal use and may not be provided to any third parties. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this SDS.