EcoKlean
Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Trade Name: ECO-KLEAN
Product Type: Pond Treatment

Date: 01-25-2021

MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION:

COMPANY NAME:	ATLANTIC-OASE
COMPANY ADDRESS:	125 Lena Drive, Aurora, Ohio 44202
COMPANY TELEPHONE:	Office hours (Mon - Fri) 9:00 am to 5:00 pm (330) 274-8317
COMPANY CONTACT NAME:	Main Office
EMERGENCY PHONE NUMBER:	Poison Control 800-222-1222

SECTION 2: HAZARD(S) IDENTIFICATION

CLASSIFICATION:
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

PHYSICAL HAZARDS:	Oxidizing solids, Category 2
HEALTH HAZARD:	Acute toxicity, Oral, Category 4 Serious eye damage, Category 1
ENVIRONMENTAL HAZARDS:	Not required OSHA Hazard Communication Standard 29 CFR 1910.1200

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

SIGNAL WORD:	**DANGER.**
GHS HAZARD STATEMENTS:	May intensify fire; oxidizer. Harmful if swallowed. Causes serious eye damage.
GHS HAZARD SYMBOLS:	

PRECAUTIONARY STATEMENTS:

– PREVENTION:	Keep away from heat. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection.
– RESPONSE:	IF SWALLOWED: Call a poison center/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Rinse mouth. IN CASE OF FIRE: Use carbon dioxide, dry chemical powder or appropriate foam to extinguish.
– STORAGE:	No storage precautionary statements required.
– DISPOSAL:	Dispose of contents/container to a suitable disposal site in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC):	None known.
% OF INGREDIENT(S) OF UNKNOWN ACUTE TOXICITY:	65% of the mixture consists of ingredients of unknown acute toxicity (oral). 100% of the mixture consists of ingredients of unknown acute toxicity (dermal/inhalation).

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE:

CHEMICAL NAME	CAS #	% BY WEIGHT
Sodium Percarbonate	15630-89-4	65 %
Proprietary Alkali Salt	Proprietary	35%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret due to the proprietary nature of one of the components.

Note: The balance of the ingredients are not classified as hazardous, or are below the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

INGESTION: Consult a physician. If conscious, rinse mouth and administer fresh water. Do NOT induce vomiting. UNDER NO CIRCUMSTANCES give anything by mouth to an unconscious person.

INHALATION: If inhaled: Move the person to fresh air immediately. Consult with a physician in case of respiratory symptoms.

SKIN CONTACT: Remove contaminated shoes, socks and clothing. Wash the affected skin with running water. Wash clothing before reuse.

EYE CONTACT: Immediately flush with plenty of cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart to ensure rinsing of the entire eye. Call a physician immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Harmful if swallowed. Causes serious eye damage.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: If any symptoms are observed, contact a physician and give them this SDS sheet.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical powder or appropriate foam to extinguish.

UNSUITABLE EXTINGUISHING MEDIA: No unsuitable extinguishing media known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Oxidizing substances cause exothermic reactions with organic materials. Product is not flammable and can be quickly diluted with clean water.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, sodium oxides

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Full protective clothing and NIOSH-approved self-contained breathing apparatus should be worn. Use water to cool exposed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dusts. Wear appropriate protective equipment, such as respirator with proper particulate filters, gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

ENVIRONMENTAL PRECAUTIONS: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Collect the product with suitable means, shovel, and sweep, avoiding dust formation. Place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Never return unused product to the original container. Keep concentrate away from reactive substances. Prevent contact with organic materials. Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition – No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Keep product in original container. Keep container tightly closed. Keep away from heat, open flame, and strong oxidizing agents. Maintain good housekeeping. Keep out of direct sunlight and in cool dry place. For maintenance of product quality, store in dry cool (under 110°F) warehouse conditions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS: OCCUPATIONAL EXPOSURE LIMITS:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) PERMISSIBLE EXPOSURE LIMITS:

SUBSTANCE	PEL-TWA (8HOUR)	PEL-STEL (15MIN)
Sodium Percarbonate	No data available	No data available
Proprietary Alkali Salt	No data available	No data available

US ACGIH THRESHOLD LIMIT VALUES:

SUBSTANCE	TLV-TWA (8 HOUR)	TLV-STEL(15 MIN)
Sodium Percarbonate	No data available	No data available
Proprietary Alkali Salt	No data available	No data available

NIOSH EXPOSURE LIMITS:

SUBSTANCE	TWA	STEL
Sodium Percarbonate	No data available	No data available
Proprietary Alkali Salt	No data available	No data available

EXPOSURE GUIDELINES:

ENGINEERING CONTROLS: General room ventilation should be adequate. Use sufficient natural or mechanical ventilation to keep mist level below the PEL where available.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: ANSI approved safety glasses with side protection, and also dust proof. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury. Eye protection should be compliant with OSHA regulations.

SKIN AND BODY PROTECTION: Body-covering clothing is advised. Wear protective gloves that are chemical resistant. Always wash hands after handling chemical.

RESPIRATORY PROTECTION: None required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate, use type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

OTHER: Have an eye wash facility available. Wash hands after handling, as well as any other affected skin areas.

THERMAL HAZARDS: No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE: Granular solid

COLOR: White

ODOR: None

ODOR THRESHOLD: No data available

PH: 1% solution: 10. 4-10. 6

MELTING POINT/FREEZING POINT: No data available

INITIAL BOILING POINT AND BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (SOLID, GAS):	Non-flammable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS :	Not applicable
VAPOR PRESSURE:	No data available
VAPOR DENSITY:	No data available
RELATIVE DENSITY (SPECIFIC GRAVITY):	1.0-1.2 g/cm^3
SOLUBILITY (IES):	140 g/l @ 24°C (75°F)
PARTITION COEFFICIENT (N-OCTANOL/WATER):	No data available
AUTO-IGNITION TEMPERATURE:	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	No data available

OTHER INFORMATION **MOLECULAR WEIGHT:** No data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not chemically reactive.
CHEMICAL STABILITY:	Stable under normal ambient and anticipated conditions of use.
POSSIBILITY OF HAZARDOUS REACTIONS:	Not known.
CONDITIONS TO AVOID:	Heat/sources of heat.
INCOMPATIBLE MATERIALS:	Water/moisture, acids, bases, reducing agents, organic materials. Oxidizing agents attack the organic components of these products. As with other organic carbonaceous compounds, these reactions produce heat which if contained in a confined space can cause fires. Hypochlorites, chlorinated isocyanurates, and perborates are examples of oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	No uniquely hazardous decomposition products are expected. If the organic portion of product is burned, as with any nitrogen containing organic material, oxides of nitrogen, carbon dioxide, and water can be produced. Partial combustion may produce, in addition to the above, soot and various oxides of carbon.

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION:	Slight nose and throat irritation.
INGESTION:	Severe irritation of the mouth, throat esophagus and stomach.
SKIN:	Slight irritation.
EYES:	Severe eye irritation, risk of serious eye lesions.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS: As detailed above.

DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT OR LONG-TERM EXPOSURE: No additional data available.

NUMERICAL MEASURES OF TOXICITY:
INGREDIENT INFORMATION:

SUBSTANCE	TEST TYPE (SPECIES)	VALUE
Sodium Percarbonate	LD50 Oral (Rat)	1034 mg/kg
	LD50 Dermal (Rabbit)	> 2000 mg/kg
	LC50 Inhalation (Rat)	No data available
Proprietary Alkali Salt	LD50 Oral (Rat)	4090 mg/kg
	LD50 Dermal (Rabbit)	No data available
	LC50 Inhalation (Rat)	5750 mg/l (2h)
PRODUCT	LD50 Oral (Rat)	1526 mg/kg
	LD50 Dermal (Rat)	> 5000 mg/kg
	LC50 Inhalation (Rat)	> 4580 mg/m (1h)

SKIN CORROSION/IRRITATION: May cause slight skin irritation.
SERIOUS EYE DAMAGE/EYE IRRITATION: May cause severe eye irritation, risk of serious eye lesions.
RESPIRATORY SENSITIZATION: No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification).
SKIN SENSITIZATION: No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification).
GERM CELL MUTAGENICITY: No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
CARCINOGENICITY: No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.
REPRODUCTIVE TOXICITY: No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).
SPECIFIC TARGET ORGAN TOXICITY- SINGLE EXPOSURE: No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).
REPEAT EXPOSURE: No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification).
ASPIRATION HAZARD: No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification).
FURTHER INFORMATION: No data available.

SECTION 12: ECOLOGICAL INFORMATION

ECO-TOXICITY: PRODUCT DATA: None available

INGREDIENT INFORMATION:

SUBSTANCE	TEST TYPE	SPECIES	VALUE
Sodium Percarbonate	LC50	Fish - Pimephales promelas (fathead minnow)	70.7 mg/l (96h)
	EC50	Aquatic Invertebrates - Daphnia magna (Water flea)	4.9 mg/l (48h)
	EC/LC50	Algae	No data available
Proprietary Alkali Salt	LC50	Fish - Lepomis macrochirus (Bluegill)	300 mg/l (96h)
	EC50	Aquatic Invertebrates - Daphnia magna (Water flea)	265 mg/l (48h)
	EC/LC50	Algae	No data available

PERSISTENCE AND DEGRADABILITY: No data available.
BIOACCUMULATION: No data available.
MOBILITY IN SOIL: No data available.
OTHER ADVERSE EFFECTS: Expected to be toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

Do not return spilled or contaminated material to inventory. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable due to its oxidizing properties.

Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures.

Empty containers can have residues, and are subject to proper waste disposal, as above.

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SECTION 14: TRANSPORTATION AND SHIPPING INFORMATION

US DEPARTMENT OF TRANSPORTATION CLASSIFICATION (49CFR)

FINISHED PACKAGED PRODUCT TRANSPORTED BY GROUND (LTD QTY):	Consumer Commodity, ORM-D

MARITIME TRANSPORT IMDG

UN NUMBER:	UN 3378
PROPER SHIPPING NAME:	Sodium Carbonate Peroxyhydrate
TRANSPORT HAZARD CLASS(ES):	5.1
PACKING GROUP, IF NECESSARY:	II
LIMITED QUANTITY (LTD QTY):	May apply

AIR TRANSPORT ICAO-TI AND IATA-DGR

UN NUMBER:	UN 3378
UN PROPER SHIPPING NAME:	Sodium Carbonate Peroxyhydrate
TRANSPORT HAZARD CLASS(ES):	5.1
PACKING GROUP, IF NECESSARY:	II
LIMITED QUANTITY (LTD QTY):	May apply

ENVIRONMENTAL HAZARDS

MARINE POLLUTANT:	No.

TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE):	No further relevant information available.
SPECIAL PRECAUTIONS WHICH A USER NEEDS TO BE AWARE OF, OR NEEDS TO COMPLY WITH, IN CONNECTION WITH TRANSPORT OR CONVEYANCE EITHER WITHIN OR OUTSIDE THEIR PREMISES:	No data available

SECTION 15: REGULATORY INFORMATION

USA-	**UNITED STATES FEDERAL REGULATIONS:**	This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.
	TOXIC SUBSTANCES CONTROL ACT (TSCA):	All substances in this product are listed, as required, or are exempt from the TSCA inventory.
	SARA SUPERFUND AND REAUTHORIZATION ACT OF 1986 TITLE III SECTIONS 302, 311,312 AND 313:	Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	CERCLA HAZARDOUS SUBSTANCE LIST, 40 CFR 302.4:	This product does not contain chemicals listed on CERCLA.
	CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130):	None
	CLEAN WATER ACT SECTION 311 HAZARDOUS SUBSTANCES (40 CFR 117.3):	None
	SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE (40 CFR 355, APPENDIX A):	None
	SECTION 311/312 (40 CFR 370):	**ACUTE HEALTH HAZARD:** Yes **CHRONIC HEALTH HAZARD:** No **FIRE HAZARD:** No **PRESSURE HAZARD:** No **REACTIVITY HAZARD:** Yes
	SECTION 313 TOXIC RELEASE INVENTORY (40 CFR 372):	None

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

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CALIFORNIA PROPOSITION 65 (CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986):	No components are listed on Prop 65.
MASSACHUSETTS RIGHT TO KNOW:	No components are listed on the Massachusetts Right to Know List.
NEW JERSEY RIGHT TO KNOW:	Sodium Percarbonate (as Disodium carbonate, compound with hydrogen peroxide (2:3)) is listed on the New Jersey Right to Know list.
PENNSYLVANIA RIGHT TO KNOW:	Sodium Percarbonate (as Disodium carbonate, compound with hydrogen peroxide (2:3)) is listed on the Pennsylvania Right to Know List.
CANADA WHMIS HAZARD CLASS:	Class C – Oxidizing Material Class D2B – Toxic material

SECTION 16: OTHER INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:	Maintain good housekeeping, avoid creating aerosols. For maintenance of product quality, store in dry cool (under 110°F) warehouse conditions.

KEEP OUT OF REACH OF CHILDREN

The above information is given in good faith, and is based upon research of others, and is believed to be accurate by Atlantic™ Water Gardens. No known relevant information has been omitted. The above information is designed to enable the User to use the product safely, and is provided solely for the User's assistance in complying with the Occupational Safety and Health Act of 1970, and the regulations there under. Any other use is prohibited. Atlantic™ Water Gardens assumes no responsibility or liability for any loss, injury, or damage, which may occur from the use or misuse of their products. Also, because actual use by others is beyond our control, no guarantee or warranty, is either expressed or implied, by Atlantic™ Water Gardens, as to the product or its use or misuse. Where the Customer has concerns, it is recommended that the Customer(s) perform their own tests.

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