

SAFETY DATA SHEET

Preparation Date March 23, 2020

Revision Date Dec. 8, 2022

1. Identification of the Substance/Preparation and of the Company

Product identifier

Product Description:	VodaGuard O Algaecide
Synonyms	sodium carbonate peroxyhydrate, sodium percarbonate
US EPA Registration number	95535-2

Recommended use of the chemical and restrictions on use

Recommended use	Algaecide
Uses advised against	Use contrary to label directions

Supplier of this Safety Data Sheet

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2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

(OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity oral	Category 3
Acute toxicity - Dermal	Category 3
Eye irritancy	Category 1
Dermal Irritancy	Category 2

Environmental Hazards



Toxic to birds. Highly toxic to bees and beneficial insects.

Physical Hazards



May intensify fire; oxidizer. Contact with combustible materials may cause fire. Wet product decomposes exothermically and may cause combustion of organic materials. Pressure may increase due to decomposition in confined spaces or containers.

Label elements

Signal Word **DANGER PELIGRO**

Hazard statements



Corrosive to eyes. Irritant to skin. Do not get in eyes, on skin, or on clothing.

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood

Applicators and other handlers must wear

- Coveralls over long-sleeved shirt and long pants
- Protective eyewear (goggles or face shield)
- Chemical resistant gloves and
- Chemical resistant footwear plus socks.

Precautionary Statements - Response

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a Poison Control Center or doctor for treatment advice.

If medical advice is needed, have container and /or booklet label at hand.

Precautionary Statements - Storage

Keep pesticide in original container. Do not use in food or drink containers.

Precautionary Statements - Disposal

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

3. Composition / information on ingredients

Chemical Name	% w/w	CAS No.	Trade secret
sodium carbonate peroxyhydrate	78 - 85 %	15630-89-4	N
hydrogenated vegetable oil	2 - 5 %	8033-29-2	N

4. FIRST AID MEASURES

IF IN EYES:

- Hold eye open and rinse slowly and gently with water or 15 to 20 minutes.
- Remove contact lenses, if present, after the first minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to by the poison control center or doctor.
- Do not give any liquid to the person.
- Do not give anything by mouth to an unconscious person.

If medical advice is needed, have container and /or booklet label at hand.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Use CO2, dry chemical, or foam to extinguish

Advice for firefighters:

Protective equipment: Wear protective equipment Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Large spill: Barricade around spill as necessary. If wet, absorb product with a clay-based absorbent. Remove dry product, absorbent and contaminated soil for disposal in accordance with applicable local regulations.

Small spill: Remove contaminated soil and place in containers for disposal in accordance with applicable local regulations.

Avoid contamination of water bodies during cleanup and disposal.

SPILLAGE ONTO HARD SURFACES: Limit area of spillage by barricading if necessary. If wet, absorb product with a clay-based absorbent.

Sweep up or vacuum, and place product into containers for disposal in accordance with applicable local regulations. Clean surface with water.

SPILLAGE INTO WATER: Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the glyphosate value to a negligible level.

IN ALL CASES

Wear protective equipment as needed (see section 8).

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children. Wear protective gloves/clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: NONE ESTABLISHED

ENGINEERING CONTROLS: Enclosed Cockpits: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)].

Mechanical Flagging Engineering Controls: Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

PERSONAL PROTECTION:

Personal protective equipment

Wear long sleeved shirt and long pants, shoes socks, goggles or face shield and chemical resistant gloves. Some materials that are chemical-resistant to this product are polyvinyl chloride, nitrile rubber, or butyl rubber. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	White granular or powder
Odor:	none
Density:	74 - 75 lb / cu ft
Vapor Pressure (mm/Hg):	Negligible @ 20°C
Solubility in Water:	dispersible, soluble in water
Melting Point:	Not applicable
pH @ 20°C:	10.4 - 10.6 @ 10% in water

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): Stable under normal conditions. May enhance fire.

INCOMPATIBILITY: Strong acids or bases, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: none known

HAZARDOUS POLYMERIZATION: Possible under hot wet conditions.

11. TOXICOLOGICAL INFORMATION

The following information is available for the formulation:

INGESTION:	Oral LD ₅₀ (rat)	1034 mg/kg
DERMAL:	Dermal LD ₅₀ (rat)	>2000 mg/kg
INHALATION:	Inhalation LC50 (rat)	> 0.5 mg/ L, respiratory irritant
SENSITIZATION:	Skin sensitization (guinea pig)	non-sensitizer
IRRITATION:	Primary skin irritation (rat)	moderate reversible irritation
EYE IRRITATION	Primary Eye Irritation	Corrosive to eyes

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA

General: VodaGuard O is toxic to birds. Highly toxic to bees and beneficial insects.

Environmental fate: Readily degradable in the environment.

13. DISPOSAL CONSIDERATIONS

Product

Excess product may be disposed of by agricultural use according to label instructions.
Keep out of drains, sewers, ditches and water ways.
Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.
Follow all local/regional/national/international regulations.

Contaminated packaging Refer to product label.

14. TRANSPORTATION INFORMATION

**DOT / TDG **

UN-Number 3378
UN proper shipping name Sodium carbonate peroxyhydrate
Transport Hazard Class: 5.1 Toxic substances
Packing group: III
Environmental hazard: Severe Marine Pollutant

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word DANGER
Ventilation Control PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.
Keep out of Reach of Children. Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Wear protective eyewear, such as goggles, face shield, or safety glasses.

United States (USA)
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.
CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

OSHA/Cal OSHA: This SDS document meets the requirements of both OSHA (29 CFR 1910.1200 and Cal OSHA (Title 8 CCR 5194 (g)) hazard communication standards. Refer to Sections 2 and 8 for regulatory exposure limits.

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed

Chemicals known to cause developmental toxicity: None of the ingredients is listed

CANADA:

Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

7758-98-7 Copper (II) sulfate

7758-99-8 Pentahydrate version of compound on list

16. OTHER INFORMATION

SDS Status:

Date of this Revision: Dec. 8, 2022

Date of Previous Revision: March 20, 2022

**Person Responsible for Preparation: Don O'Shaughnessy, Ph.D., DABT, President
DOC Inc.**

Reasons for Revision: recalculation of active ingredient

DISCLAIMER:

This information is provided for the limited guidance to the user. While Amvodaguard, Inc. believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

ABBREVIATIONS:

a.i. - Active ingredient
ACGIH - American Conference of Governmental Industrial Hygienists
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

EPA	-	Environmental Protection Agency
FIFRA	-	Federal Insecticide, Fungicide, and Rodenticide Act
IARC	-	International Agency for Research on Cancer
NTP	-	National Toxicology Program
SARA	-	Superfund Amendments and Reauthorization Act
TSCA	-	Toxic Substances Control Act
DOT	-	Department of Transportation
IMDG	-	International Maritime Dangerous Goods
IATA	-	International Air Transport Association

This is the last page of this SDS. There should be 7 pages.