Amvodaguard Inc. SDS No. 3

SAFETY DATA SHEET

Preparation Date March 20, 2020

Revision Date NA

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

Product identifier

Product Description: Synonyms US EPA Registration number VodaGuard C Algaecide coated copper sulfate pentahydrate 95535-1

Recommended use of the chemical and restrictions on use

Recommended useAlgaecideUses advised againstUse contrary to label directions

Supplier of this Safety Data Sheet

Amvodaguard, Inc. 314 Estate Court Midland, ON Canada L4R 5H2 416-628-1616 EMERGENCY PHONE NUMBER (CHEMTREC) 1-800-424-9300

2. HAZARDS IDENTIFICATION Classification

OSHA Regulatory Status

(OSHA Hazard Communication Standard (29 CFR 1910.1200)Acute toxicity oralCategory 2Acute toxicity - DermalCategory 3Eye irritancyCategory 1

Environmental Hazards

Toxic to aquatic organisms

Physical Hazards Store away from oxidizing agents, strong acids and bases.

Label elements
Signal Word
DANGER PELIGRO

Hazard statements

Corrosive to eyes. Moderately 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** 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. Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

Chemical Name % w/w		
copper sulfate pentahydrate 95 - 98 % hydrogenated vegetable oil 2 - 5 %	<u>CAS No.</u> 7758-99-8 8033-29-2	Trade secret N 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: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Combustion products may include metallic oxides or other toxic vapors.

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: Appearance: Odor: Density: Vapor Pressure (mm/Hg): Solubility in Water: Melting Point: pH @ 20°C: Solid Blue granular or powder none 114 lb / cu ft Negligible @ 20°C dispersible, soluble in water Not applicable 4 @ 10% in water

10. STABILITY AND REACTIVITY

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

INCOMPATIBILITY: Strong acids or bases, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulfur, copper oxides

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION The following information is available for the formulation:			
INGESTION:	Oral LD ₅₀ (rat)	400 - 550 mg/kg	
DERMAL:	Dermal LD ₅₀ (rat)	>2000 mg/kg	
INHALATION:	Inhalation LC50 (rat)	1.3 mg / L	
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 C is toxic to aquatic organisms. Fish: LC50 (96h) Rainbow trout (7758-98-7): 0.1-2.5 mg/L Crustacea - LC50 (48 h) for D. magna (7758-98-7): 33.8 µg/L

Environmental fate: Readily degradable in the environment. **Bioaccumulative potential**: Copper is accumulated by plants and animals, but it does not appear to biomagnify from plants to animals. In air, copper aerosols (in general) have a residence time of 2 to 10 days.

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 3288			
UN proper shipping name	Toxic solid, Inorganic, N.O.S., (Cupric Sulfate)		
Transport Hazard Class:			
6.1 Toxic substances			
Packing group:III			
Environmental hazard: Sever	e 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 wordDANGERVentilation ControlPESTICIDE APPLICATORS & WORKERS THESE WORKERSMUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE INACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.Keep out of Reach of Children. Corrosive. Causes irreversible eye damage. May be fatal ifswallowed. 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)

SARA Section 311/312 (Specific toxic chemical listings):

Acute

SARA Section 313 (Specific toxic chemical

listings): 7758-99-8 Cupric sulfate, Copper

compounds

RCRA (hazardous waste

code): None of the

ingredients is listed

TSCA (Toxic Substances

Control Act): All ingredients

are listed.

CERCLA (Comprehensi e En ironmental Response, Compensation, and Liability

Act): 7758-99-8 Cupric Sulfate Pentahydrate (Copper compounds) 10 lbs

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 reproducti e toxicity for females: None of the ingredients is listed Chemicals known to cause reproducti e toxicity for males: None of the ingredients is listed Chemicals known to cause de elopmental 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: March 20, 2022 Date of Previous Revision: NA Person Responsible for Preparation: Don O'Shaughnessy, Ph.D., DABT, President DOC Inc. Reasons for Revision: NA

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.