

# MATERIAL SAFETY DATA SHEET

## Color Guard® 1000

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<b>Revision No.:</b> 05 - April 18, 2017	<b>Review Date:</b> April 18, 2019

<b>Section 1 IDENTIFICATION</b>	
<b>Name of Composition</b>	COLOR GUARD 1000; CHOLECALCIFEROL; ACTIVATED 7-DEHYDROCHOLESTEROL
<b>Manufacturer</b>	AGD Nutrition, P.O. Box 837, Lake Dallas, Texas, 75065 <b>Phone:</b> 940-497-6604 <b>Emergency phone:</b> 800-495-4243
<b>Recommended use</b>	Feed/food additive
<b>Restrictions on use</b>	Vitamin D3 is generally recognized as safe when used with good manufacturing or feeding practice (21 CFE Section 582.5953).

<b>Section 2 HAZARD(S) IDENTIFICATION</b>	
<b>Typical Characteristics</b>	Blue, dry, free flowing, flaked solid.
<b>Health Hazards</b>	Toxic only by massive/prolonged ingestion of > 50,000 IU/day
<b>Flammability Hazards</b>	None
<b>Reactivity Hazards</b>	Unreactive; decomposition to inactive products exacerbated by heat and light.
<b>Environmental Hazards</b>	Product is biodegradable.
<b>Emergency Considerations</b>	Emergency responders should wear appropriate protection for situation to which they respond. Avoid breathing dust; wear disposable filter mask when handling.

<b>Section 3 COMPOSITION</b>					
CAS NO.	COMPONENT	CONCENTRATION	PERMISSIBLE EXPOSURE LIMIT	SHORT TERM EXPOSURE LIMIT	RTECS NUMBER
67-97-0	Cholecalciferol (Activated 7-dehydrocholesterol)	1,000,000 IU/gm		LD <sub>50</sub> >30 g/kg	VS 2900000
128370	BHT (Butylated hydroxy toluene)	2-3%	(TWA) 10 g/M <sup>3</sup>		GO 78750
	Non GMO Vegetable Oil		Non-Toxic		
	Water		Non-Toxic		
	Modified Edible Starch		Non-Toxic		
	Food Coloring		Non-Toxic		
1338-41-6	Sorbitan Monostearate, ethoxylated	0.5-0.8%	Non-Toxic	LD <sub>50</sub> >20 g/kg rat	Wg2933500

<b>Section 4 FIRST AID MEASURES</b>		
<b>EMERGENCY AND FIRST AID PROCEDURES:</b> Seek medical attention.		
<b>EFFECTS OF OVEREXPOSURE</b>	<b>ACUTE</b>	Toxic only by massive ingestion; no reliable limits established.
	<b>CHRONIC</b>	Toxic only by prolonged ingestion of > 50,000 IU/day

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<b>Section 5 FIREFIGHTING MEASURES</b>		
<b>FLASH POINT</b>	<b>FLAMMABLE (EXPLOSIVE) LIMITS (PERCENT BY VOLUME)</b>	
	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIVE LIMIT
N/A	N/A	N/A
<b>FIRE EXTINGUISHING MEDIA</b>	N/A	
<b>SPECIAL FIRE FIGHTING PROCEDURE</b>	N/A	
<b>PROTECTIVE EQUIPMENT</b>	Firefighters should wear appropriate protection for situation to which they respond. Avoid breathing dust; wear disposable filter mask when handling.	

<b>Section 6 ACCIDENTAL RELEASE MEASURES</b>	
<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>	Vacuum spilled material; transfer to heavy paper bag.
<b>WASTE DISPOSAL METHOD</b>	Bury in approved landfill or incinerate. Product is biodegradable.
<b>CONTAINER DISPOSAL</b>	Bury in approved landfill or incinerate. Product is biodegradable.
<b>PROTECTIVE EQUIPMENT:</b>	Avoid breathing dust; wear disposable filter mask when handling.

<b>Section 7 HANDLING AND STORAGE</b>	
<b>STORAGE REQUIREMENTS</b>	Store in cool, dry location in sealed plastic bags in cardboard boxes.
<b>MATERIAL OF CONSTRUCTION</b>	Cardboard boxes with poly liners.
<b>LABELING</b>	No special labeling required.
<b>CONDITIONS TO AVOID</b>	Prolonged exposure to extremes of heat and light.

<b>Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>PERMISSIBLE EXPOSURE LIMITS (PELS)</b>	????
<b>THRESHOLD LIMIT VALUES (TLVS)</b>	????
<b>APPROPRIATE ENGINEERING CONTROLS</b>	????
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<b>EYE PROTECTION</b>	No special requirements.
<b>GLOVES</b>	No special requirements.
<b>RESPIRATORY</b>	Avoid breathing dust; wear disposable filter mask when handling.
<b>VENTILATION</b>	No special requirements.

<b>Section 9 PHYSICAL AND CHEMICAL PROPERTIES</b>		
<b>Typical Characteristics</b>	<b>Boiling Point</b>	<b>Specific Gravity (Water = 1)</b>
Blue, dry, free flowing, flaked solid.	N/A	0.50 g/mL
<b>Vapor Pressure (mm of Hg)</b>	<b>Freezing Point</b>	<b>pH</b>
N/A	N/A	N/A
<b>Vapor Density (Air = 1)</b>	<b>Chemical Family</b>	<b>Molecular Formula</b>
N/A	Sterol	C <sub>27</sub> H <sub>44</sub> O

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### Section 10 STABILITY AND REACTIVITY

<b>GENERAL REACTIVITY</b>	Unreactive; decomposition to inactive products exacerbated by heat and light.
<b>INCOMPATIBILITY (MATERIALS TO AVOID)</b>	None
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	None
<b>HAZARDOUS POLYMERIZATION</b>	Does not polymerize.
<b>CONDITIONS TO AVOID</b>	Prolonged exposure to extremes of heat and light.

### Section 11 TOXICOLOGICAL INFORMATION

<b>EFFECTS OF OVEREXPOSURE</b>	<b>ACUTE</b>	Toxic only by massive ingestion; no reliable limits established.
	<b>CHRONIC</b>	Toxic only by prolonged ingestion of > 50,000 IU/day.

### Section 12 ECOLOGICAL INFORMATION

Product is biodegradable.

### Section 13 DISPOSAL CONSIDERATIONS

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>	Vacuum spilled material; transfer to heavy paper bag.
<b>WASTE DISPOSAL METHOD</b>	Bury in approved landfill or incinerate. Product is biodegradable.
<b>CONTAINER DISPOSAL</b>	Bury in approved landfill or incinerate. Product is biodegradable.

### Section 14 TRANSPORT INFORMATION

<b>Proper Shipping Name:</b>	Generally regarded as safe (GRAS 21CFR 582.5953) - does not fall under D.O.T. regulations.	
<b>Hazard Class</b>	<b>Type of Packaging</b>	<b>Label</b>
N/A	N/A	N/A
<b>Placard</b>	<b>Marking</b>	<b>Exemptions</b>
N/A	N/A	Exempt from D.O.T. regulations.

### Section 15 REGULATORY INFORMATION

### Section 16 OTHER INFORMATION