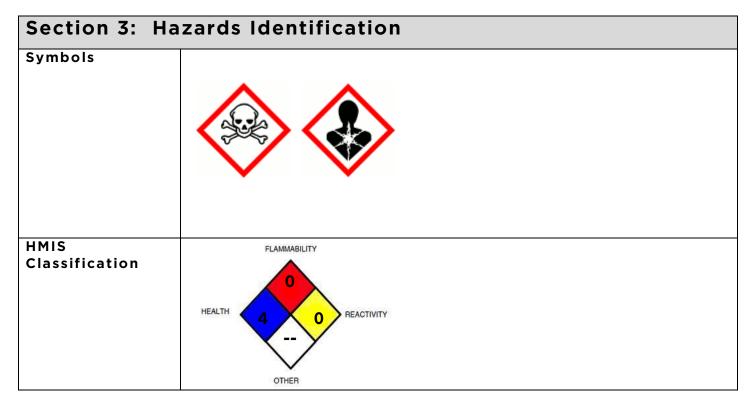


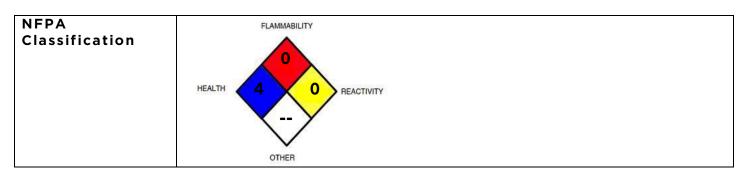
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	25-Hydroxy Vitamin D3	
Product #:	H-2457	
Synonyms:	Calcifediol	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
25-Hydroxy Vitamin D3	19356-17-3	-	







Section 4: First Aid Measures		
General Overview:	Immediate medical attention is required. If symptoms persist, call a physician.	
Inhalation:	Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician.	
Skin:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.	
Eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If symptoms persist, call a physician.	
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5:	Fire Fighting Measures
Flammability of the product:	No data available
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous thermal (de)composition products:	Carbon oxides
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective suit. Wear self-contained breathing apparatus for firefighting if necessary.



Flash Point:	No data available

Section 6: A	ccidental Release Measures
Personal Precautions:	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.
Methods for Clean-up:	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
	Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Store at -20°C.
Handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



Skin and Body:	Wear protective gloves and protective clothing.
Eyes:	Tight sealing safety goggles. Face protection shield.
Ventilation/Engineering Measures:	Showers, Eyewash stations, Ventilation systems
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

SECTION 9: Physical and Chemical Properties		
Appearance &	Solid	
Odor:		
Formula	C ₂₇ H ₄₄ O ₂	
Molecular Wt.	400.65	
Melting Pt.	105°C	
Boiling Pt.	N/A	
Liquid Density:	1.01 g/cm ³	
Vapor Pressure:	N/A	
Evaporation Rate:	N/A	
Vapor Density:	N/A	
Solubility:	Ethanol, Methanol, DMSO, Acetone	
Flash Point:	N/A	
Autoignition	N/A	
Temp:		

SECTION 10: Stability and Reactivity



Stability:	Stable under recommended storage conditions.
Hazardous	Carbon oxides
decomposition products:	
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	Extremes of temperature and direct sunlight.

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	N/A	
CHRONIC Toxicity:	N/A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA	

SECTION 12: Ecological Information		
Ecotoxicity:	May cause long lasting harmful effects to aquatic life.	
Mobility:	No data available	
Persistence and	No data available	
degradability:		
Bioaccumulative	No data available	
potential:		
Other adverse	No data available	
effects:		
Corrosivity	No data available	
Characteristic:		
General Notes:	To the best of our knowledge, the chemical, physical and toxicological	
	properties have not been thoroughly investigated.	

SECTION 13: Dis	posal Considerations
Residue Waste or	Disposal should be in accordance with applicable regional, national and
Unused product:	local laws and regulations.



Contaminated	Do not reuse container.
Packaging:	

SECTION 14: Transportation Information	
UN ID#:	UN2811
ADR / RID (LAND):	N/A
DOT regulations:	UN/ID no UN2811
	Hazard Class 6.1
	Packing Group II
	Proper shipping name Toxic solids, organic, n.o.s. Description UN2811,
	Toxic solids, organic, n.o.s. (25-Hydroxyvitamin D3), 6.1, II
	Emergency Response Guide Number 154
IMDG/IMO (SEA):	UN/ID no UN2811
	Hazard Class 6.1
	Packing Group II
	Proper shipping name Toxic solid, organic, n.o.s. Description UN2811,
	Toxic solid, organic, n.o.s. (25-Hydroxyvitamin D3), 6.1, II
	Special Provisions 274
	EmS-No F-A, S-A
IATA/DGR (AIR):	UN/ID no UN2811
	Hazard Class 6.1
	Packing Group II
	Proper shipping name Toxic solid, organic, n.o.s. Description UN2811,
	Toxic solid, organic, n.o.s. (25-Hydroxyvitamin D3), 6.1, II
	ERG Code 6L
Special Provisions:	N/A

SECTION 15: Regulatory Information	
Health Phrases:	Danger!
	H330 Fatal if inhaled
	H372 Causes damage to organs through prolonged or repeated exposure
	H311 Toxic in contact with skin
	H301 Toxic if swallowed
Risk Phrases:	P264 Wash face, hands and any exposed skin thoroughly after handling
	P270 Do not eat, drink or smoke when using this product
	P280 Wear protective gloves/protective clothing/eye protection/face
	protection
	P260 Do not breathe dust/fume/gas/mist/vapors/spray
	P271 Use only outdoors or in a well-ventilated area
	P284 Wear respiratory protection
Safety Phrases:	P314 Get medical advice/attention if you feel unwell
	P302+P352 IF ON SKIN: Wash with plenty of soap and water
	P312 Call a POISON CENTER or doctor/physician if you feel unwell
	P361 Remove/Take off immediately all contaminated clothing
	P363 Wash contaminated clothing before reuse



	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing
	P310 Immediately call a POISON CENTER or doctor/physician
	P301 + P310 IF SWALLOWED: Immediately call a POISONCENTER or
	doctor/ physician
	P330 Rinse mouth
EU Regulations:	N/A
US Regulations:	TSCA: Not listed
	California Proposition 65: No products were found
U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
	SARA 311/312 MSDS distribution-chemical inventory-hazard
	identification: Acute Health Hazard, Chronic Health Hazard
	SARA 313 toxic chemicals notification and release reporting: No products
	were found.
	Clean Water Act (CWA) 307: No products were found.
	Clean Water Act (CWA) 311: No products were found.
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
	OSHA: Acute toxicity - oral (Cat. 3); Acute toxicity - dermal (Cat. 3);
	Acute toxicity - inhalation [dusts/mists] (Cat. 1); Specific target organ
	toxicity - repeated exposure (Cat. 1)
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.