

Safety Data Sheet

Section 1: Product & Company Identification

Product Name:	Oleanolic Acid
Product #:	O-2372
Synonyms:	Astrantiagenin C; Caryophyllin; Giganteumgenin C; Gledigenin 1; NSC 114945; Virgaureagenin B
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
Oleanolic Acid	508-02-1	208-081-6	≥95

Section 3: Hazards Identification

Symbols	N/A
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HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
0	0	0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
0	0	0

Section 4: First Aid Measures

General Overview:	No special measures required.
Inhalation:	Supply fresh air; consult a doctor in case of complaints.
Skin:	Generally, the product does not irritate the skin.
Eyes:	Rinse opened eyes for several minutes under running water.
Ingestion:	If symptoms persist consult doctor.
	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 firefighting measures that suit the environment. A solid water stream may be inefficient.
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	No data available
Flash Point:	No data available


Section 6: Accidental Release Measures

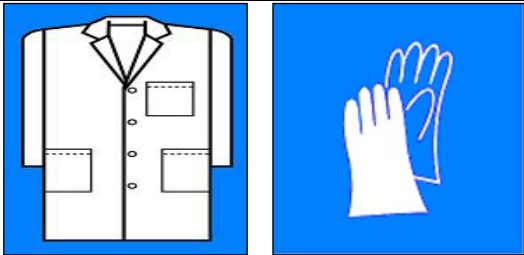

Personal Precautions:	Not required
Environmental Precautions:	Do not allow to enter sewers/ surface or ground water.
Methods for Clean-up:	Pick up mechanically.

SECTION 7: Handling & Storage

Storage:	Recommended storage temperature: -20°C
Handling:	No special measures required

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Not required</p>
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Skin and Body:	 <p>Protective gloves and lab coat</p>
Eyes:	 <p>Not required</p>
Ventilation/Engineering Measures:	Ensure adequate ventilation.
Hygiene:	Follow standard good industrial hygiene.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Solid. Characteristic odor.
Formula	$C_{30}H_{48}O_3$
Molecular Wt.	456.7
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMF (30 mg/mL); DMF:PBS [pH 7.2] [1:2] (0.3 mg/mL); DMSO (3 mg/mL); Ethanol (5 mg/mL)
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
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Hazardous decomposition products:	Carbon dioxide, carbon monoxide
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	RK0177965
ACUTE Toxicity:	N/A
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

SECTION 12: Ecological Information

Ecotoxicity:	Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	No data available

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Smaller quantities can be disposed of with household waste.
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Contaminated Packaging:	Disposal must be made according to official regulations.
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SECTION 14: Transportation Information

UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	Not hazardous
Risk Phrases:	N/A
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: Product
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. 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: N/A
WHMIS (Canada):	N/A

SECTION 16: Other Information

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