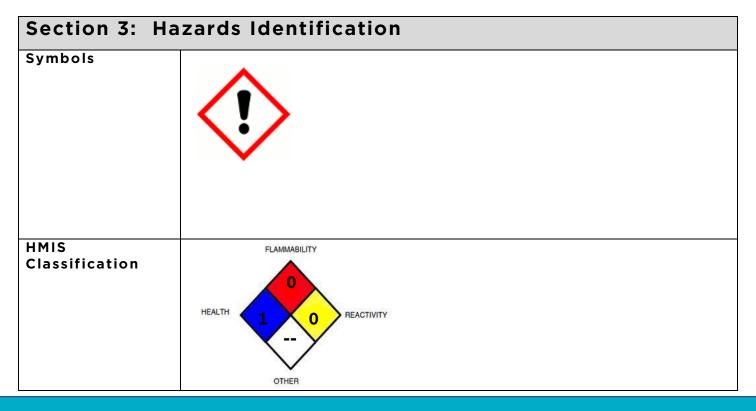


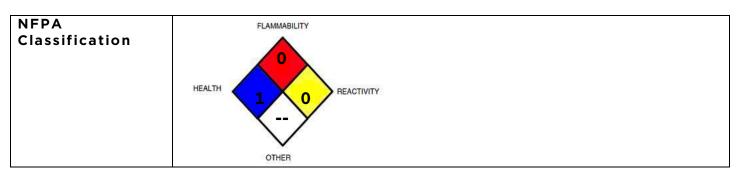
Safety Data Sheet

Section 1: Product & Company Identification	
Product Name:	Phorbol 12-myristate 13-acetate
Product #:	P-1039
Synonyms:	PMA; 12-O-Tetradecanoylphorbol-13-acetate; TPA; Tetradecanoic acid, (1aR,1bS,4aR,7aS,7bS,8R,9R,9aS)-9a- (acetyloxy)-1a,1b,4,4a,5,7a,7b,8,9,9a-decahydro-4a,7b- dihydroxy-3-(hydroxymethyl)-1,1,6,8-tetramethyl-5-oxo- 1H-cyclopropa[3,4]benz[1,2-e]azulen-9-yl ester
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
Phorbol 12-myristate 13-acetate	16561-29-8	605-413-5	100







Section 4: First Aid Measures	
General Overview:	May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.
Inhalation:	In case of unconsciousness place patient stably in side position for transportation.
Skin:	Immediately wash with water and soap and rinse thoroughly.
Eyes:	Rinse opened eye 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	Product is not flammable	
the product:		
Extinguishing	Use firefighting measures that suit the environment. A solid water stream may	
Media:	be inefficient.	
Hazardous	No further relevant information available	
thermal		
(de)composition		
products:		
Special Fire	No special measures required	
Fighting		
Procedures:		
Flash Point:	Not applicable	

Section 6: Accidental Release Measures		
Personal	Not required	
Precautions:		
Environmental	Do not allow to enter sewers, surface or ground water.	
Precautions:		
Methods for	Pick up mechanically	
Clean-up:		



SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed. Store at -20°C.
Handling:	No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.

SECTION 8: Expos	ure controls / Personal Protection
Respiratory Protection:	NIOSH/MSHA-approved respirator.
Skin and Body:	Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.
Eyes:	Safety goggles.
Ventilation/Engineering Measures:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.



Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink, and animal feeding stuffs. Do not eat, drink, or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before reuse. Wash hands before breaks and after work.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties		
Appearance &	White to off-white solid	
Odor:		
Formula	C ₃₆ H ₅₆ O ₈	
Molecular Wt.	616.8	
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:	No data available	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Carbon oxides	
Materials to Avoid:	Strong oxidizing agents	
Conditions to avoid:	No data available	

SECTION 11: Toxicological Information		
QH4377000		
LD/LC50 Intraperitoneal >1 mg/kg (mouse)		
N/A		
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:	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:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

SECTION 13: Disposal Considerations		
Residue Waste or Unused product:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.	
Contaminated Packaging:	Disposal must be made according to official regulations.	

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:	Not regulated	

SECTION 15: Regulatory Information	
Health Phrases:	H315 Causes skin irritation
Risk Phrases:	N/A
Safety Phrases:	P264 Wash thoroughly after handling.



	P280 Wear protective gloves.
	P302+P352 If on skin: Wash with plenty of water.
	P321 Specific treatment (see on this label).
	P332+P313 If skin irritation occurs: Get medical advice/attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
EU Regulations:	N/A
US Regulations:	TSCA: Substance is not listed
	California Proposition 65: Substance is not listed
U.S. Federal	SARA 302/304/311/312 extremely hazardous substances: No products
Regulations:	were found
	SARA 302/304 emergency planning and notification: No products were found.
	SARA 302/304/311/312 hazardous chemicals: 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: No Products were found.
WHMIS (Canada):	

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.