

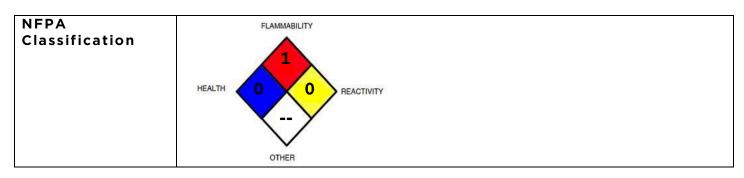
## **Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	Rottlerin	
Product #:	R-1120	
Synonyms:	Mallotoxin; Kamalin	
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
Rottlerin	82-08-6	-	100

Section 3:	Hazards Identification
Symbols	N/A
HMIS Classification	HEALTH OTHER





Section 4: First Aid Measures		
General Overview:	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist /vapors/spray. Do not get in eyes, on skin, or on clothing.	
Inhalation:	Remove to fresh air Call a physician If breathing is irregular or stopped, administer artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.	
Skin:	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.	
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. If symptoms persist, call a physician.	
Ingestion:	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5: Fire Fighting Measures		
Flammability of	No data available	
the product:		
Extinguishing	Use extinguishing measures that are appropriate to local circumstances and	
Media:	the surrounding environment.	
Hazardous	Carbon oxides	
thermal		
(de)composition		
products:		
Special Fire	As in any fire, wear self-contained breathing apparatus pressure-demand,	
Fighting	MSHA/NIOSH (approved or equivalent) and full protective gear.	
Procedures:		
Flash Point:	266.03°C	

Section 6: A	Accidental Release Measures
Personal	Ensure adequate ventilation, especially in confined areas.
Precautions:	



Environmental Precautions:	Prevent entry into waterways, sewers, basements, or confined areas. 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. Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust.

SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. 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.

# **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.
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 &	Brown crystalline powder	
Odor:		
Formula	C <sub>30</sub> H <sub>28</sub> O <sub>8</sub>	
Molecular Wt.	516.6	
Melting Pt.	200°C	
Boiling Pt.	800.44°C	
Density:	1.4 g/cm <sup>3</sup>	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	1	
Solubility:	Soluble in ethanol (1 mg/mL), DMSO (30 mg/mL), DMF, ether, chloroform,	
	benzene, and ethyl acetate. Insoluble in water.	
Flash Point:	266.03°C	
Autoignition	No data available	
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: Disposal Considerations		
Residue Waste or Unused product:	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
Contaminated Packaging:	Do not reuse container. Waste codes should be assigned by the user based on the application for which the product was used.	

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:	P264 Wash hands thoroughly after handling	
Safety Phrases:	P308+P313 IF exposed or concerned: Get medical advice/attention	
EU Regulations:	EINECS: Rottlerin (CAS 82-08-6)	
US Regulations:	TSCA: No products listed	
	California Proposition 65: No products 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: Rottlerin (CAS 82-08-6), Acute 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: No products listed	
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.