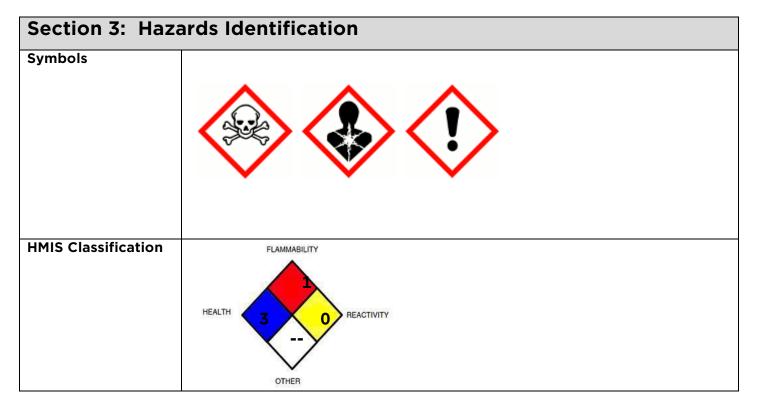


## **Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	Ochratoxin A	
Product #:	O-1034	
Synonyms:	N-[(3R)-(5-Chloro-8-hydroxy-3-methyl-1-oxo-7-isochromanyl)carbonyl]-L-phenylalanine; OCA	
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
Ochratoxin A	303-47-9	-	





NFPA Classification	HEALTH 3 REACTIVITY
	OTHER

Section 4: Firs	t Aid Measures
General Overview:	Immediate medical attention is required. If symptoms persist, call a physician.
	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
	Ensure that medical personnel are aware of the material(s) involved, take
	precautions to protect themselves and prevent spread of contamination.
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
CI.	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. 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 eyes 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 plenty of water afterwards.
	Call a physician.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fi	ire Fighting Measures
Flammability of the product:	Wear self-contained breathing apparatus and protective suit.
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.



Hazardous thermal	Carbon oxides, Nitrogen oxides (NOx), Phosgene
(de)composition	
products:	
Special Fire	Thermal decomposition can lead to release of toxic/corrosive gases and
Fighting	vapors.
Procedures:	
Flash Point:	336.27°C

Section 6: Ac	cidental 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. Soakup 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, flushaway traces with water. Take precautionary measures against static discharges.

SECTION 7: H	andling & 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 2 - 8°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.  Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.



SECTION 8: Exposur	e 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:	Ensure adequate ventilation.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	N/A

## **SECTION 9: Physical and Chemical Properties**



Appearance & Odor:	Solid
Formula	C <sub>20</sub> H <sub>18</sub> CINO <sub>6</sub>
Molecular Wt.	403.81
Melting Pt.	169°C
Boiling Pt.	632.42°C
Density:	1.4 g/cm <sup>3</sup>
Vapor Pressure:	No data available
<b>Evaporation Rate:</b>	No data available
Vapor Density:	No data available
Solubility:	Soluble in chloroform (9.80 - 10.20 mg/ml), methanol (10 mg/ml), ethanol
	(50 mM), and DMSO (100 mM).
Flash Point:	336.27°C
<b>Partition Coefficient</b>	4.70

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous	Carbon oxides, Nitrogen oxides (NOx), Phosgene	
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:	ATEmix (oral) = 5 mg/kg	
CHRONIC Toxicity:	Prolonged or repeated exposure increases the risk. Possible risk of irreversible effects. Avoid repeated exposure.	
	Carcinogenicity: Ochratoxin A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: Group 2B 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: Reasonably Anticipated 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 effects:	No data available
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	Disposal should be in accordance with applicable regional, national and
Unused product:	local laws and regulations.
Contaminated	Do not reuse container. Waste codes should be assigned by the user
Packaging:	based on the application for which the productwas used.

SECTION 14: Transportation Information	
UN ID#:	UN3462
ADR / RID (LAND):	N/A
DOT regulations:	UN3462
	Hazard Class: 6.1
	Packing Group: II
	Proper Shipping Name: Toxins, extracted from living sources, solid, n.o.s
	Description: UN3462, Toxins, extracted from living sources, solid, n.o.s.
	(Ochratoxin A), 6.1, II, POISON
	Emergency Response Guide Number: 153
IMDG/IMO (SEA):	UN3462
	Hazard Class: 6.1
	Packing Group: II
	Proper Shipping Name: Toxins, extracted from living sources, solid, n.o.s
	Description: UN3462, Toxins, extracted from living sources, solid, n.o.s.
	(Ochratoxin A), 6.1, II
	Special Provisions: 210, 274
	EmS-No: F-A, S-A
IATA/DGR (AIR):	UN3462
	Hazard Class: 6.1
	Packing Group: II
	Proper Shipping Name: Toxins, extracted from living sources, solid, n.o.s
	Description: UN3462, Toxins, extracted from living sources, solid, n.o.s.
	(Ochratoxin A), 6.1, II
Special Provisions:	N/A

SECTION 15: Regulatory Information	
Health Phrases:	Danger!



	Total if awallowed
	Fatal if swallowed
	Causes serious eye irritation
	May cause cancer
	Suspected of damaging fertility or the unborn child
	May cause drowsiness or dizziness
	May cause damage to organs through prolonged or repeated exposure
	May be fatal if swallowed and enters airways
Risk Phrases:	Obtain special instructions before use
	Do not handle until all safety precautions have been read and understood
	Use personal protective equipment as required
	Wash face, hands and any exposed skin thoroughly after handling
	Do not eat, drink or smoke when using this product
	Use only outdoors or in a well-ventilated area
	Do not breathe dust/fume/gas/mist/vapors/spray
Safety Phrases:	IF exposed or concerned: Get medical advice/attention
	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. If eye irritation
	persists, get medical advice/attention.
	IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician. Rinse mouth. Do not induce vomiting.
EU Regulations:	EINECS: Listed
US Regulations:	TSCA: Not listed
	California Proposition 65: Ochratoxin A (CAS 303-47-9) - Carcinogen
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were
	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.
	Were round.
	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.
	Tourid.
	OSHA:
	Acute toxicity - Oral Category 2
	Serious eye damage/eye irritation Category 2A
	Carcinogenicity Category 1B
	Reproductive toxicity Category 2
	Specific target organ toxicity (single exposure) Category 3



	Specific target organ toxicity (repeated exposure) Category 2 Aspiration toxicity Category 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.