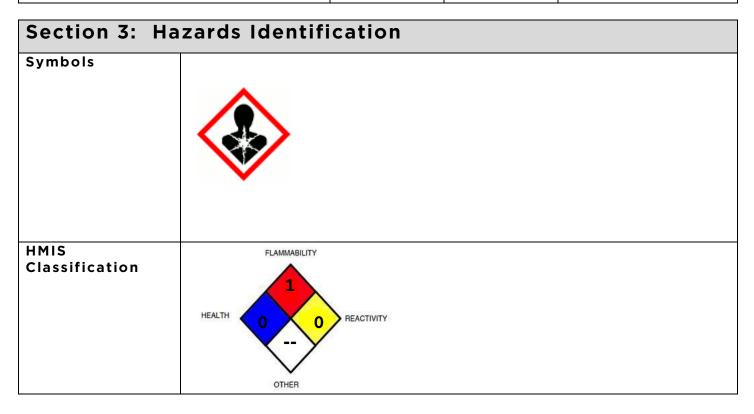


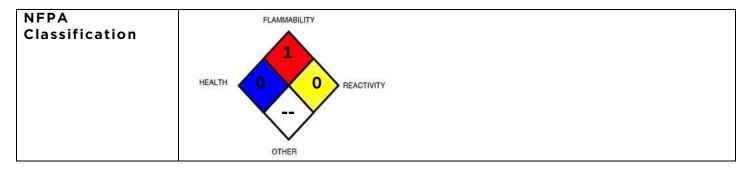
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Nocodazole	
Product #:	N-1177	
Synonyms:	Oncodazole; R 17934; [5-(2-Thienylcarbonyl)-1H- benzimidazol-2-yl]-carbamic acid methyl ester; Methyl N- (5-thenoyl-2-benzimidazolyl)carbamate; Methyl [5-(2- thienylcarbonyl)-1H-benzimidazol-2-yl]carbamate	
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
Nocodazole	31430-18-9	250-626-5	







Section 4: First Aid Measures

General	Show this material safety data sheet to the doctor in attendance.
Overview:	
Inhalation:	After inhalation: fresh air. Call in physician.
Skin:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Eyes:	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Ingestion:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures			
Flammability of the product:	Combustible. Risk of dust explosion.		
Extinguishing Media:	Water, Foam, Carbon dioxide (CO2), Dry powder		
Hazardous thermal (de)composition products:	Carbon oxides, nitrogen oxides (NOx), sulfur oxides		
Special Fire Fighting Procedures:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.		
Flash Point:	No data available		

Section 6: Accidental Release Measures

Personal	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid
Precautions:	substance contact. Ensure adequate ventilation. Evacuate the danger area,
	observe emergency procedures, consult an expert.



Environmental Precautions:	Do not let product enter drains.
Methods for	Cover drains. Collect, bind, and pump off spills. Observe possible material
Clean-up:	restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: Handling & Storage

Keep container tightly closed. Recommended storage temperature: 2-8°C.
Storage class (TRGS 510): 11: Combustible Solids
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. Handle in accordance with
good industrial hygiene and safety practice. Corrosive hazard. Wear protective
gloves/clothing and eye/face protection.

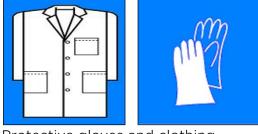
SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



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

Skin and Body:



Protective gloves and clothing.

Eyes:



	Safety glasses.	
Ventilation/Engineering	Change contaminated clothing. Preventive skin protection	
Measures:	recommended. Wash hands after working with substance.	
Hygiene:	Handle in accordance with good industrial hygiene and safety	
	practice.	
Other:	Contains no substances with occupational exposure limit values.	

SECTION 9: Physical and Chemical Properties

Appearance &	Powder
Odor:	
Formula	$C_{14}H_{11}N_3O_3S$
Molecular Wt.	301.3
Melting Pt.	300°C
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:	DMSO; Dimethyl formamide
Flash Point:	No data available
Autoignition	No data available
Temp:	

SECTION 10: Stability and Reactivity

Stability:	In correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. The product is chemically stable under standard ambient conditions (room temperature) .
Hazardous decomposition products:	No data available
Materials to Avoid:	No data available
Conditions to avoid:	Strong oxidizing agents

SECTION 11: Toxicological Information

RTECS#:

DD6521000



ACUTE Toxicity:	N/A
CHRONIC Toxicity:	In vitro tests showed mutagenic effects.
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 NTP.
	EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information		
Ecotoxicity:	No data available	
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	Waste material must be disposed of in accordance with the national and	
Unused product:	local regulations. Leave chemicals in original containers. No mixing with other waste.	
Contaminated	Handle uncleaned containers like the product itself. See	
Packaging:	www.retrologistik.com for processes regarding the return of chemicals	
	and containers or contact us there if you have further questions.	

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:	Warning!	
	H341 Suspected of causing genetic defects.	
<u> </u>	H361 Suspected of damaging fertility or the unborn child.	
Risk Phrases:	P201 Obtain special instructions before use.	
	P202 Do not handle until all safety precautions have been read and understood.	
	P280 Wear protective gloves/ protective clothing/ eye protection/ face	
	protection.	
	P308 + P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up.	
	P501 Dispose of contents/ container to an approved waste disposal	
	plant.	
Safety Phrases:	N/A	
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: Germ cell mutagenicity (Cat. 2); Reproductive toxicity (Cat. 2)	
WHMIS (Canada):	N/A	

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be allinclusive 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.