

Expert Synthesis Solutions

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SAFETY DATA SHEET Version: 2 Revision Date: 04/02/18

SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Metronidazole-D4 Hydrochloride
Catalog No.:	ESS0274
Product Use:	For laboratory research purposes

SECTION 2: HAZARDS IDENTIFICATION

WHMIS Classification:	CLASS D2A: Very toxic material causing other toxic effects. Carcinogen.
GHS Classification:	Acute toxicity, oral (Category 5)
	Carcinogenicity (Category 2)

GHS Label elements Pictogram:



Signal word:	Danger	
Hazard statement:	H303: May be harmful if swallowed.	
	H351: Suspecting of causing cancer.	
Precautionary statement:	P201: Obtain special instructions before use.	
-	P202: Do not handle until all safety precautions have been read and understood.	
	P260: Do not breath dust/ fume/ gas/ mist/ vapours/ spray.	
	P264: Wash (hands) thoroughly after handling.	
	P280: Wear protective gloves/protective clothing/eye protection/ face protection.	
Response statements:	P308+313: If exposed or concerned: Get medical attention/ advice.	
HMIS Classification		
Health Hazard:	1	
Chronic Health Hazard:	Carcinogen	
Flammability:	0	
Physical Hazards:	0	
Potential Health Effects		
Inhalation:	May be harmful in case of inhalation. May cause respiratory tract irritation.	
Skin:	May be harmful if absorbed through skin. May cause skin irritation.	
Eyes:	May cause eye irritation.	
Ingestion:	May be harmful if swallowed.	
Other hazards:	No data available.	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms:	2-Methyl-5-nitro-1H-imidazole-1-(ethanol-d4) hydrochloride; Anagiardil-d4 hydrochloride; Arilin-d4 hydrochloride		
Formula:	C ₆ H ₆ D ₄ CIN ₃ O ₃		
Molecular Weight:	211.64		
CAS No.:	1261397-74-3		

SECTION 4: FIRST AID MEASURES

General Advice: Consult a physician. Show this SDS. Move out of dangerous area.		
If Inhaled:	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.	
In case of skin contact:	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin	
	with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.	
In case of eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.	
If swallowed:	Do not induce vomiting. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.	

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special protective equipment for firefighters:	Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full
	protective gear. During a fire, toxic gases may be generated by thermal decomposition or combustion.
Hazardous combustion products:	Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO ₂), nitrogen oxides (NO _x),
	toxic chlorides.
Explosion data:	No data available.

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SECTION 6: ACCIDEN		SE MEASURES			
Personal precaution				quipment as indicated in section 8.	
Environmental prec	autions:			erving precautions in the Protective Equ	uipment section. Do not let
			product enter drains.		
Methods and mater	ials for conta	inment and cleaning up:	Sweep up, and then place into a	suitable container for disposal.	
SECTION 7: HANDLIN	NG AND STO	RAGE			
Precautions for safe	e handling:	ventilation where dust is for protective clothing. In case	med. Ground all equipment contain of insufficient ventilation, wear suita	id formation of dust and aerosols. Prov ng material. Do not ingest. Do not brea ble respiratory equipment. If ingested,	athe dust. Wear suitable
Conditions for safe storage: immediately and show the container or the label. Avoid contact with skin and eyes. Keep container tightly closed in a dry and well ventilated place. Ground all equipment containing material. Recommended long term storage temperature -20°C. SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION		erial. Recommended long			
Engineering Contro				ngineering controls to keep airborne le	vels below recommended
		exposure limits.			
Personal protective	e equipment				
Respiratory protect		Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.			
Hand protection:		Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.			
Eye protection:		Wear safety glasses with	side-shields conforming to EN166 tandards such as NIOSH (US) or E	Jse equipment for eye protection teste N166 (EU).	d and approved under
Skin and body prote	ection:		and clothing to prevent skin exposu		
Hygiene measures:		Handle in accordance wit	h good industrial hygiene and safe	/ practice. Wash hands before break a	nd after the end of work day.
SECTION 9: PHYSICA					
Appearance:		White solid			

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	White solid
Odour:	No data available.
Odour threshold:	No data available.
pH:	No data available.
Melting point/Freezing point:	No data available.
Initial boiling point/boiling range:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability (solid; gas):	No data available.
Lower flammable/explosive limit:	No data available.
Upper flammable/explosive limit:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Solubility:	DMSO (slightly), Methanol (slightly)
Partition coefficient – n-octanol/water:	No data available.
Autoignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
SECTION 10: STABILITY & REACTIVITY	
	Chable under recommended storage conditions
Chemical stability:	Stable under recommended storage conditions.

Chemical Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Not available.
Possibility of hazardous reactions:	No data available.
Incompatibilities:	Strong oxidizing agents.
Hazardous decompositions products:	Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), toxic
	chlorides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Potential health effects:	
Inhalation:	May be harmful in case of inhalation. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
Signs and symptoms of exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATION

Product:

Dispose in a manner consistent with federal, state, and local regulations. Dispose of as unused product. Contaminated packaging:

SECTION 14: TRANSPORT INFORMATION

TDG (Canada):	Not dangerous goods.	
DOT (US):	Not dangerous goods.	
IMDG:	Not dangerous goods.	
IATA:	Not dangerous goods.	
UN number:	Not available.	
UN proper shipping name:	Metronidazole-D4 Hydrochloride, organic compound, solid.	
Transport hazard class:	Not dangerous goods.	
Packing group:	Not available.	
Special precautions:	Ship at room temperature.	

SECTION 15: REGULATORY INFORMATION

General:	WHMIS CLASS D2A: Very toxic material causing other toxic effects. Carcinogen.
DSL/NDSL (Canada):	This product is not listed on the Canadian DSL/NDSL.
TSCA (US):	This product is not listed on the US EPA TSCA.
ECHA (EU):	The parent compound of this product is listed on the EU ECHA.

SECTION 16: OTHER INFORMATION

Further Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Expert Synthesis Solutions shall not be held liable for any damage resulting from handling or from contact with the above product.