

Expert Synthesis Solutions 700 Collip Circle London, ON N6G4X8 647-407-9078 | <u>info@esschemco.com</u> www.esschemco.com

SECTION 1: PROD Product Name:				
Catalog No.:	ESS035	arfarin-D5		
Product Use:		ratory research purposes		
Floudel Ose.		rationy research purposes		
SECTION 2: HAZAF	RDS IDEN	ITIFICATION		
WHMIS Classifica		CLASS D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects Toxic by Ingestion/Skin Absorption.		
		D2A: Very Toxic Material Causing Other Toxic Effects Reproductive Toxin/Teratogen.		
GHS Classification	on:	Acute Toxicity, Dermal (Category 4)		
		Acute Toxicity, Oral (Category 1)		
		Reproductive Toxicity (Category 1A)		
		Specific Target Organ Toxicity, Repeated Exposure (Category 1) Hazardous to the Aquatic Environment, Acute Hazard (Category 3)		
		Hazardous to the Aquatic Environment, Long-Term Hazard (Category 3)		
GHS Label eleme	nts			
Pictogram:				
		$\vee \Psi \vee$		
Signal word:		Danger		
Hazard statemer	nt:	H300. Fatal if swallowed.		
		H312: Harmful in contact with skin.		
		H360: May damage fertility or the unborn child.		
		H372: Causes damage to organs through prolonged or repeated exposure.		
		H402: Harmful to aquatic life.		
		H412: Harmful to aquatic life with long lasting effects.		
Precautionary st	atement:	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. P273: Avoid release to the environment.		
		P264: Wash (hands) thoroughly after handling.		
		P280: Wear protective gloves/protective clothing/eye protection/ face protection.		
Response state	monter	P301+313: IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.		
Response state	menus.	P308+313: If exposed or concerned: Get medical attention/ advice.		
Potential Health E	Effects			
Inhalation:		May be harmful in case of inhalation. May cause respiratory tract irritation.		
Skin:		Harmful if absorbed through skin. May cause skin irritation.		
Eyes:		May cause eye irritation.		
Ingestion:		May be fatal if swallowed. No data available.		
Other hazards:				
SECTION 2. COMD				
Synonyms:		/ INFORMATION ON INGREDIENTS )- 3-(α-Acetonylbenzyl)-4-hydroxycoumarin-D5;		
Formula:		$H_{16}D_{5}O_{4}$		
Molecular Weight				
CAS No.:				
SECTION 4: FIRST	AID MEA			
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 co	ontact:	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 amelliant. If irritation particle, sock medical attention. Wash contaminated clething before reusing		
In case of ave as	ntact	with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold		
In case of eye co	IIIdCl.	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		
n swanowcu.		indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a		
		collect to be the waisthand. If the within a net broathing perform mouth to mouth requesitation. Sook immediate mediant starting		

collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Expert	Synthesis Solutio	ons		
	ollip Circle			
	n, ON N6G4X8			SAFETY DATA SHEET
	7-9078   info@e	sschemco.c	om	Version: 2
	sschemco.com			Revision Date: 09/20/18
SECTION 5: FIRE FIGHTING	IEASURES			
Conditions of flammability:			ble or combustible.	
Suitable extinguishing med				E FIRE: Use water spray, fog or foam. Do not use water jet.
Special protective equipment	nt for firefighters:	nrotective a	contained breatning apparatus in pres	ssure-demand, MSHA/NIOSH (approved or equivalent) and full generated by thermal decomposition or combustion.
Hazardous combustion pro	ducts:	Hazardous	lecomposition products formed under	fire conditions: carbon oxides (CO, CO <sub>2</sub> ).
Explosion data:		No data ava		
SECTION 6: ACCIDENTAL RE	LEASE MEASURES	6	Line proper personal protective equi	inment as indicated in castion 9
Personal precautions: Environmental precautions:			Use proper personal protective equi	ing precautions in the Protective Equipment section. Do not let
Linnonmental precadions.			product enter drains.	
Methods and materials for c	ontainment and cle	aning up:	Sweep up, and then place into a sui	itable container for disposal.
		• •		
SECTION 7: HANDLING AND			C C: ''' A ''	
Precautions for safe handling				formation of dust and aerosols. Provide appropriate exhaust material. Do not ingest. Do not breathe dust. Wear suitable
				e respiratory equipment. If ingested, seek medical advice
			ontainer or the label. Avoid contact wi	
Conditions for safe storage		0,	in a dry and well ventilated place. G	round all equipment containing material. Recommended storage
	temperature -2	20°C.		
		DEOTECTIO	AI.	
SECTION 8: EXPOSURE CON Engineering Controls:				ineering controls to keep airborne levels below recommended
	exposure lir		,	······································
Personal protective equipm				
Respiratory protection:				full-facepiece airline respirator in the positive pressure mode
Hand protection.		ency escape p		proper glove removal technique (without touching glove's outer
Hand protection:	surface) to a	avoid skin con	act with this product. Dispose of cont	aminated gloves after use in accordance with applicable laws
			ices. Wash and dry hands.	
Eye protection:				e equipment for eye protection tested and approved under
•••••••			tandards such as NIOSH (US) or EN1	
Skin and body protection: Hygiene measures:			and clothing to prevent skin exposure.	ractice. Wash hands before break and after the end of work day.
nygiene measures.				actice. Wash hands before break and after the ond of work day.
SECTION 9: PHYSICAL & CHI	EMICAL PROPERTI	ES		
Appearance:		white solid		
Odour:		lata available.		
Odour threshold: pH:		lata available. lata available.		
Melting point/Freezing point		lata available.		
Initial boiling point/boiling r		lata available.		
Flash point:	No c	lata available.		
Evaporation rate:		lata available.		
Flammability (solid; gas):		lata available. lata available.		
Lower flammable/explosive Upper flammable/explosive		lata available. lata available.		
Vapour pressure:		lata available.		
Vapour density:		lata available.		
Solubility:			), Ethyl Acetate, Ethanol	
		No data available. No data available.		
Autoignition temperature.		No data available.		
Viscosity:	•	lata available.		
•				
SECTION 10: STABILITY & RE			Pro-	
Chemical stability: Conditions to avoid:		le under recor available.	mended storage conditions.	
Possibility of hazardous rea		ata available.		
Incompatibilities:		ng oxidizing ag	ents.	
Hazardous decompositions			position products formed under fire co	nditions: carbon oxides (CO, CO <sub>2</sub> ).



Expert Synthesis Solutions 700 Collip Circle London, ON N6G4X8 647-407-9078 | info@esschemco.com www.esschemco.com

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

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.
	Harmful to aquatic life with long lasting effect.

#### SECTION 13: DISPOSAL CONSIDERATION

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

### SECTION 14: TRANSPORT INFORMATION

TDG (Canada):	UN2811
DOT (US):	UN2811
IMDG:	UN2811
IATA:	UN2811
UN number:	UN2811
UN proper shipping name:	(+/-)-Warfarin-D5, Toxic solid, Environmentally hazardous substance, organic compound, solid.
Transport hazard class:	6.1
Packing group:	I
Special precautions:	Ship at room temperature.

#### SECTION 15: REGULATORY INFORMATION

General:	CLASS D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects Toxic by Ingestion/Skin Absorption.
	D2A: Very Toxic Material Causing Other Toxic Effects Reproductive Toxin/Teratogen
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):	This product is not 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.