

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

## SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Formoterol-D6 Fumarate
Catalog No.:	ESS0296
Product Use:	For laboratory research purposes

### SECTION 2: HAZARDS IDENTIFICATION

SECTION 2: HAZARDS IDEN	TIFICATION	
WHMIS Classification:	Not WHM	IS controlled.
GHS Label elements:		
Signal word:	None	
Hazard statement:		ardous substance.
Precautionary statement:		
Response statements:	None	
HMIS Classification		
Health Hazard:	0	
Chronic Health Hazard:	No data a	vailable.
Flammability:	0	
Physical Hazards:	0	
Potential Health Effects		
Inhalation:	,	armful in case of inhalation. May cause respiratory tract irritation.
Skin:		armful if absorbed through skin. May cause skin irritation.
Eyes:	,	e eye irritation.
Ingestion:		armful if swallowed.
Other hazards:	No data a	vailable.
SECTION 3: COMPOSITION /	INFORMATION ON IN	IGREDIENTS
Synonyms: (R*,	(R*/S*))-N-[2-Hydroxy-	5-[1-hydroxy-2-[[2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]-formamide-D6 (E)-2-Butenedioate (2:1)
(Sal	/	
	H40D12N4O12	
Molecular Weight: 816		
CAS No.: 432	29-80-7 (unlabelled)	
SECTION 4: FIRST AID MEAS		
General Advice:		how this SDS. Move out of dangerous area.
If Inhaled:		t in a well-ventilated area. Seek immediate medical attention.
In case of skin contact:		, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and
		e particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin
		itation persists, seek medical attention. Wash contaminated clothing before reusing.
In case of eye contact:		any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold
		o not use an eye ointment. Seek medical attention.
If swallowed:		g. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible
	indication that the toxi	c material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a
	collar, tie, belt or wais	tband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
SECTION 5: FIRE FIGHTING		
Suitable extinguishing med		SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special protective equipme	ent 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 pro	oducts:	Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ).
Explosion data:		No data available.
SECTION 6: ACCIDENTAL R	ELEASE MEASURES	
Personal precautions:		Use proper personal protective equipment as indicated in section 8.
Environmental precautions		Clean up spills immediately, observing precautions in the Protective Equipment section. Do not let
		product enter drains.
Methods and materials for	containment and clea	aning up: Sweep up, and then place into a suitable container for disposal.
SECTION 7: HANDLING AND		
Precautions for safe handli		n heat. Keep away from sources of ignition. Avoid formation of dust and aerosols. Provide appropriate exhaust

ventilation where dust is formed. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
 Conditions for safe storage: 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: EXPOSE	Expert Synthesis Solutions 700 Collip Circle London, ON N6G4X8 647-407-9078   <u>info@esschemco.com</u> www.esschemco.com JRE CONTROL / PERSONAL PROTECTION	<b>SAFETY DATA SHEET</b> Version: 2 Revision Date: 03/22/18
Engineering Contro		ne levels below recommended
5 5	exposure limits.	
Personal protective	equipment	
Respiratory protect	tion: 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	
	surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in ac	cordance with applicable laws
	and good laboratory practices. Wash and dry hands.	tested and annexed under
Eye protection:	Wear safety glasses with side-shields conforming to EN166 Use equipment for eye protection appropriate government standards such as NIOSH (US) or EN166 (EU).	tested and approved under
Skin and hady prot		
Skin and body prot Hygiene measures:		eak and after the end of work day
nygiene measures.		sak and alter the end of work day.
SECTION 9: PHYSIC	AL & CHEMICAL PROPERTIES	
Appearance	Beige solid	
Odour:	No data available.	

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:	Methanol	
Partition coefficient – n-octanol/water:	No data available.	
Autoignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	
Other safety information:	No data available.	

SECTION 10: STABILITY & REACTIVITY

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 <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ).

## SECTION 11: TOXICOLOGICAL INFORMATION

SECTION II. TOXICOLOGICAL INI ON	
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.

## 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:	No data available.	

# SECTION 13: DISPOSAL CONSIDERATION

 Product:
 Dispose in a manner consistent with federal, state, and local regulations.

 Contaminated packaging:
 Dispose of as unused product.



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# 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:	Formoterol-D6 Fumarate, organic compound, solid.	
Transport hazard class:	Not dangerous goods.	
Packing group:	Not available.	
Special precautions:	Ship at room temperature.	

### **SECTION 15: REGULATORY INFORMATION**

General:	Not WHMIS controlled.
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.