

MATERIAL SAFETY DATA SHEET

Revision Date: 2017-01-01

1. IDENTIFICATION OF THE SUBSTANCE/TREPARATION AND THE COMPANY/UNDERTAKING

Formoterol fumarate

Product name:	romoteroi iuma	rate
Supplier:	BINBO BIOLOGI	CAL CO.,LTD
	FENGCHENG O	NE ROAD
	Xi'an	
	China	
Tel:	+86-1348821451	1
2.COMI	POSITION/INFORMATION ON INGRE	DIENTS
Components	ACGIH Exposure Limits:	OSHA Exposure Limits:
Formoterol fumarate	None	None
	3.HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: May caus	se skin irritation and/or dermatitis	
Principle routes of exposure:	Skin	
Inhalation:	May cause irritat	ion of respiratory tract
Ingestion:	May be harmful i	f swallowed
Skin contact:	May cause allerg	jic skin reaction
Eye contact:	Avoid contact wit	th eyes
Statements of hazard MAY CAUSE	ALLERGIC SKIN REACTION.	
Statements of Spill of Leak Label E	Eliminate all ignition sources. Absorb a	nd/or contain spill with inert materials
(e.g., sand, vermiculite). Then place i	n appropriate container. For large spills	s, use water spray to disperse vapors,
flush spill area. Prevent runoff from er	ntering waterways or sewers.	

4. FIRST AID MEASURES



General advice: In the case of accident or if you fell unwell, seek medical

advice immediately (show the label where possible).

Move to fresh air, call a physician immediately.

Inhalation: Rinse immediately with plenty of water and seek medical

advice

Do not induce vomiting without medical advice.

Skin contact: In the case of contact with eyes, rinse immediately with

Ingestion: plenty of water and seek medical advice.

Eye contact: No information available

Protection of first - aiders:

Medical conditions aggravated by exposure: None known

5.FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards:Burning produces irritant fumes.

Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

Flash point: and full protective gear

Autoignition temperature:Not determinedNFPA ratingNot determined

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Prevent product from entering drains.

Methods for cleaning up: Sweep up and shovel into suitable containers for

disposal

7. HANDLING AND STORAGE



Storage:

Room temperature

Handling:

Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

Incompatible products: Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Skin and body protection: Usual safety precautions while handling the product will

provide adequate protection against this potential effect.

Safety glasses with side-shields

Eye protection: PVC or other plastic material gloves

Hand protection: Handle in accordance with good industrial hygiene and

Hygiene measures: safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/range:No Data available at this time.Boiling point/range:No Data available at this time.

Density:No data availableVapor pressure:No data availableEvaporation rate:No data availableVapor density:No data availableSolubility (in water):No data availableFlash point:Not determinedAutoignition temperature:Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours

such as carbon oxides.



Materials to avoid: Strong oxidising agents.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product information

Acute toxicity

Components	RTECS Number:	Selected LD50s and LC50s	
Formoterol fumarate	Not Available	Not Determined	

Chronic toxicity: Chronic exposure may cause nausea and vomiting,

higher exposure causes unconsciousness.

Local effects: Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness)

and moderate edema (raised skin), nausea, vomiting,

headache

Primary irritation:

Carcingenic effects:

No data is available on the product itself.

No data is available on the product itself.

No data is available on the product itself.

Reproductive toxicity:

No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.



Components	Germany VCI (WGK)	World Health Organization (WHO) – Drinking Water	Ecotoxicity – Fish Species Data
Formoterol fumarate	Not Listed	Not Listed	Not Listed

Components	Ecotoxicity	-	Freshwater	Ecotoxicity	-	Microtox	Ecotoxicity - Water Flea
	Algae Data			Data			Data
Formoterol	Not Listed			Not Listed			Not Listed
fumarate							

Components	EPA – ATSDR Priority List	EPA - HPV Challenge	California - Priority Toxic
		Program Chemical List	Pollutants
Formoterol	Not Listed	Not Listed	Not Listed
fumarate			

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with

appropriate Federal, State and local regulations. This product, if unaltered by use, may be disposed of treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be

hazardous.

Contaminated packaging:Do not re-use empty containers.

14. TRANSPORT INFFORMATION

UN/ld No: Not regulated

DOT

Proper shipping name: Not Regulated

TGD(Canada)

WHMIS hazard class: Non - controlled

IMDG/IMO

IMDG - Hazard Classifications Not Applicable



Components	U.S. DOT –Appendix A Table 1 – Reportable Quantities
Formoterol	Not Listed
fumarate	

Components	U.S. DOT –Appendix B – Marine Pollutants	U.S. DOT -Appendix B - Severe Marine
		Pollutants
Formoterol	Not Listed	Not Listed
fumarate		

IMO - labels:

15. REGULATORY INFOTMATION	
15. REGULATORY INFOTMATION	

International Inventories

Components	Inventory – United States TSCA – Sect.8(b)	Canada DSL Inventory List -
Formoterol	Not Listed	Not Listed
fumarate		

U.S. regulations:

Components	California	proposition	Massachusetts	New Jersey Right to	Pennsylvania
	65 -		Right to Know List:	Know List:	Right to Know
					List:
Formoterol	NA		Not Listed	Not listed	Not listed
fumarate					

Components	Florida	substance	Rhode Island Right	Illinois - Toxic Air	Connecticut -
	List:		to Know List:	Contaminants	Hazardous Air
Formoterol	Not Listed		Not Listed	Not listed	Not listed
fumarate					

Components	SSARA	313	CERCLA/SARA	-	NTP:	IARC:
	Emission		Section	302		
	reporting/Toxic		Extremely Haz			
	Release	of				
	Chemicals					
Formoterol			Not Listed		Not listed	Not listed



tumarate
Turriarato

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of safety data sheet