according to Regulation (EC) No. 1907/2006



# Formoterol fumarate dihydrate

Formoterol fumarate dihydrate		
Version: 8.1 Rev	vision Date: 22.01.2025	SDS Number: 10000000095
SECTION 1: Identifica	tion of the substance/m	nixture and of the company/undertaking
<b>1.1 Product identifier</b> Trade name REACH Registration CAS-No.	Number : NA : 183814-30-4	marate dihydrate
Unique Formula Ider <b>1.2 Relevant identified u</b> Use of the Sub- stance/Mixture Recommended restring on use	ses of the substance or n : Active pharma	nixture and uses advised against aceutical ingredients able
<ul> <li>1.3 Details of the supplic Company Street address Post-office box: Postcode Telephone E-mail address of pe responsible for the S VAT Reg. No:</li> <li>1.4 Emergency telephor</li> </ul>	DS <sup>:</sup> FI18552129	aan tie 6 A , Finland
Poison Center	: +358 800 147	

+358 9 471 977

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - single ex- posure, Category 1	H370: Causes damage to organs.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolon- ged or repeated exposure.
Long-term (chronic) aquatic hazard, Ca-	H412: Harmful to aquatic life with long lasting
tegory 3	effects.
Acute toxicity, Category 2	H330: Fatal if inhaled.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.

For explanation of abbreviations see section 16.

#### 2.2 Label elements

## Labeling (REGULATION (EC) No 1272/2008)

t

Hazard pictograms



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Signal Word	: Danger	
Hazard Staten	nents	
H370	Causes damage to	organs.
H372	Causes damage to	organs through prolonged or repeated ex-
	posure.	
H412	Harmful to aquatic	life with long lasting effects.
H330	Fatal if inhaled.	
H361d	Suspected of dama	aging the unborn child.

#### **Precautionary Statements**

### General:

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P273 Avoid release to the environment.
P501 Dispose of contents according to national and local law.
P260 Do not broathe dust/ fume/ gas/ mist/ vapors/ spray.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

## 2.3 Other hazards

Other hazards	:	No data available
PBT	:	No data available
vPvB	:	No data available
Endocrine disrupting pro-	:	Ecological information: No data available
pernes		Toxicological information: No data available

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Chemical name	CAS-No. EC-No. Registration-No	Concentration (% w/w)	M-Factor, SCL, ATE
Formoterol fumarate dihyd- rate	183814-30-4		

#### Other information

: No data available

:

#### 3.2 Mixtures

Not applicable

### **SECTION 4: First aid measures**

### 4.1 Description of first-aid measures

General advice

Symptoms of poisoning may be delayed. Exposed should be monitored for at least 48 hours.

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		Helpers shoul	d ensure their own protection.
If inhaled	:	position comfo	Remove victim to fresh air and keep at rest in a ortable for breathing. dvice/attention.
In case of skin co	ontact :	IF ON SKIN: V	e off immediately all contaminated clothing. Vash with soap and water. ously with water for several minutes.
In case of eye co	ontact :		tinse continuously with water for several minu- cal advice/attention.
If swallowed	:	Rinse mouth. Get medical a	dvice/attention.
4.2 Most important s	symptoms and e	effects, both ac	cute and delayed
Symptoms	:	Nausea Spasm tachycardia	
Risks	:	No data availa	ble
4.3 Indication of any	v immediate me	dical attention	and special treatment needed
Treatment	:	Treat symptor	natically.
SECTION 5. Eirofi			
SECTION 5: Firefig	gnting measur	es	
5.1 Extinguishing m		es	
-	edia	Water spray Carbon dioxid Powder	e (CO2) ater or alcohol-resistant foam
5.1 Extinguishing m	edia shing media :	Water spray Carbon dioxid Powder	ater or alcohol-resistant foam
5.1 Extinguishing me Suitable extinguis Unsuitable exting media	edia shing media : guishing :	Water spray Carbon dioxid Powder Large fires: wa No data availa	ater or alcohol-resistant foam
5.1 Extinguishing me Suitable extinguis	edia shing media : guishing : arising from the	Water spray Carbon dioxid Powder Large fires: wa No data availa	ater or alcohol-resistant foam able <b>mixture</b> c fumes of oxides of carbon and nitrogen during
<ul> <li>5.1 Extinguishing media</li> <li>5.2 Special hazards</li> <li>Specific hazards</li> </ul>	edia shing media : guishing : arising from the during fire :	Water spray Carbon dioxid Powder Large fires: wa No data availa <b>e substance or</b> May emit toxic	ater or alcohol-resistant foam able <b>mixture</b> fumes of oxides of carbon and nitrogen during
<ul> <li>5.1 Extinguishing me Suitable extinguishing me Unsuitable extinguishing</li> <li>Unsuitable extinguishing</li> <li>5.2 Special hazards fighting</li> <li>Hazardous combe ducts</li> </ul>	edia shing media : guishing : arising from the during fire : pustion pro- :	Water spray Carbon dioxid Powder Large fires: wa No data availa <b>e substance or</b> May emit toxic heating or fire	ater or alcohol-resistant foam able <b>mixture</b> fumes of oxides of carbon and nitrogen during
<ul> <li>5.1 Extinguishing me Suitable extinguishing me Unsuitable exting media</li> <li>5.2 Special hazards Specific hazards fighting Hazardous comb</li> </ul>	edia shing media : guishing : arising from the during fire : pustion pro- :	Water spray Carbon dioxid Powder Large fires: wa No data availa e substance or May emit toxic heating or fire No data availa	ater or alcohol-resistant foam able <b>mixture</b> fumes of oxides of carbon and nitrogen during
<ul> <li>5.1 Extinguishing me Suitable extinguishing me Unsuitable extinguishing media</li> <li>5.2 Special hazards Specific hazards fighting Hazardous comb ducts</li> <li>5.3 Advice for firefig Special protective</li> </ul>	edia shing media : guishing : arising from the during fire : pustion pro- : ghters re equipment :	Water spray Carbon dioxid Powder Large fires: wa No data availa e substance or May emit toxic heating or fire No data availa	ater or alcohol-resistant foam able <b>mixture</b> fumes of oxides of carbon and nitrogen during able hing apparatus eg. compressed breathing appa- ective clothing.



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SECTION 6: Accidental relea	se measures
	ctive equipment and emergency procedures
Personal precautions	: Use personal protective equipment as required.
6.2 Environmental precautions	
Environmental precautions	: Do not put into water system, drain or soil. Avoid release to the environment.
6.3 Methods and material for co	ntainment and cleaning up
Methods for cleaning up	: Collect spilled powder without dusting into tight closed contai- ner.
6.4 Reference to other sections	
See Section 8 and 13	
SECTION 7: Handling and sto	orage
7.1 Precautions for safe handlin	ng
Advice on safe handling	<ul> <li>Handle in well-ventilated space. Handle in accordance with good industrial hygiene and safety procedures.</li> </ul>
7.2 Conditions for safe storage,	including any incompatibilities
Requirements for storage	: Keep container tightly closed.
areas and containers	Protect from light. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Store at +15 - 25 °C.
	See incompatible materials in section 10.5.
Packaging material	: Suitable material: No data available Unsuitable material: No data available
7.3 Specific end use(s)	
Specific use(s)	: No information identified.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

Engineering measures	: Provide sufficient ventilation (local exhaust).
	Ground/bond container and receiving equipment.
	Handle in closed systems or use an efficient local exhaust if
	dust, vapours or mists may release into workplace air. If
	technical measures cannot prevent exposure, wear personal
	protective equipment.

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Personal pro	Personal protective equipment			
Respiratory p	rotection	:	In open handling use respirator (P3) with a minimum protec- tion factor of 200. See standard working procedures/instructions or department's instructions for more detailed protection measures.	
Eye/face prote	ection	:	Use protective goggles.	
Hand protecti Remarks	on	:	Use protective gloves (e.g. nitrile or neopren gloves).	
Skin and body	y protection	:	Wear protective clothing.	
Protective me	asures	:	No data available	
Environmenta controls	ll exposure	:	No data available	

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Form	: crystalline
Physical state	: solid
Color	: white
Odor	: odorless
Odor Threshold	: No data available
	: No data available
Boiling point/boiling range	: No data available
Flammability	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: No data available
Autoignition temperature	: 400 °C
Decomposition temperature	: No data available
Self-Accelerating decomposi- tion temperature (SADT)	: No data available
рН	: 6 (20 °C) Concentration: 0,1 % w/V

Viscosity

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Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies) Water solubility	:	slightly soluble
Solubility in other solvents	:	Solvent: methanol Description: soluble
Dissolution Rate	:	No data available
Partition coefficient: n- octanol/water	:	log Pow: 2,6
Dispersion Stability	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	200 g/l (20 °C)
Bulk density	:	No data available
Relative vapor density	:	No data available
Dissociation constant	:	No data available
Particle characteristics	:	No data available
<b>9.2 Other information</b> Self-ignition	:	No data available
Hygroscopic properties	:	No data available
Henry's Constant	:	No data available
Further information	:	No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not occur.

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10.4 Conditions to avoid	
Conditions to avoid	: Light Keep away from heat/sparks/open flames/hot surfaces - No smoking.
<b>10.5 Incompatible materials</b> Materials to avoid	: Strong oxidants
<b>10.6 Hazardous decomposition</b> May emit toxic fumes of oxide	<b>products</b> es of carbon and nitrogen during heating or fire.
SECTION 11: Toxicological in	nformation
11.1 Information on hazard clas	ses as defined in Regulation (EC) No 1272/2008
Acute toxicity Health hazard information	: Fatal if inhaled.
Acute oral toxicity	: LD50 (Rat): 3 130 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 0,26-1,25 mg/l Exposure time: 4 h LDLo (Rat): 156 mg/kg
Acute dermal toxicity	: No data available
Acute toxicity (other routes of administration)	<ul> <li>f : LD50 (Rat): 1 000 mg/kg Target Organs: subcutaneous Symptoms: Swallowing of the substance may induce:, Nause- a, mouth dryness feeling of thirst LD50 (Rat): 98 mg/kg Target Organs: intravenous Symptoms: Potential impacts of exposure include:, muscular spasms, nervousness, Headache, tremble, Dizziness, Fati- gue, hypokalemia, hyperglycemia, angina pectoris, hypotensi- on, hypertension, tachycardia, aryhtmia LD50 (Rat): 170 mg/kg Target Organs: Intraperitoneal</li> </ul>
Skin corrosion/irritation Result	: May irritate the skin.
<b>Serious eye damage/eye irr</b> Result	r <b>itation</b> : May irritate eyes.
<b>Respiratory or skin sensitiz</b> No data available	zation
Germ cell mutagenicity Genotoxicity in vitro	: The product was not mutagenic or clastogenic in the following tests: mutagenicity test in
No data available Germ cell mutagenicity	: The product was not mutagenic or clastogenic in the following

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	bacterial and mammalian cells, chromosomal analyses in mammalian cells, unscheduled DNA synthesis repair tests in rat hepatocytes and human fib- roblasts, transformation assay in mammalian fibroblasts and micronucleous tests in mice and rats.
Genotoxicity in viv	: No data available
Carcinogenicity	
Remarks	Substance is not classified as a carcinogen by IARC, NTP or OSHA. The carcinogenic potential of product has been evaluated in 2-year drinking water and dietary studies in both rats and mice. In rats, the incidence of ovarian leiomyomas was increased at doses of 15 mg/kg and above in the drinking water study and at 20 mg/kg in the dietary study, but not at dietary doses up to 5 mg/kg. In the dietary study, the incidence of benign ovarian theca-cell tumors was increased at doses of 0.5 mg/kg and above. This finding was not observed in the drinking water study, nor was it seen in mice. In mice, the incidence of adrenal subcapsular adenomas and carcinomas was increased in males at doses of 69 mg/kg and above in the drinking water study, but not at doses up to 50 mg/kg in the dietary study. The incidence of hepatocarcinomas was increased in the dietary study at doses of 20 and 50 mg/kg in emales and 50 mg/kg in males. Also in the dietary study, the incidence of uterine leiomyomas and leiomyosarcomas was increased at doses of 2 mg/kg and above. Increases in leiomyomas of the rodent female genital tract have been similarly demonstrated with other beta-agonist drugs.
Reproductive to: Effects on fertility	ty Suspected of damaging the unborn child. Reproduction studies in rats revealed no impairment of fertility at oral doses up to 3 mg/kg. The product has been shown to cause stillbirth and neonatal mortality at oral doses of 6 mg/kg and above in rats receiving the product during the late stage of pregnancy. These effects, however, were not produced at a dose of 0.2 mg/kg. When the product was given to rats throughout organogenesis, oral doses of 0.2 mg/kg and above delayed ossification of the fetus, and doses of 6 mg/kg and above decreased fetal weight. The product did not cause malformations in rats or rabbits following oral administ- ration. In reproductive studies in rats the product was excreted in the milk.

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Effects on fetal developm	ent : No data available
STOT-single exposure Assessment	: Causes damage to organs.
STOT-repeated exposur Assessment	<ul> <li>Causes damage to organs through prolonged or repeated exposure.</li> </ul>
<b>Repeated dose toxicity</b> No data available	
Aspiration toxicity No data available	
2 Information on other ha	zards
<b>Endocrine disrupting p</b> No data available	roperties
Experience with human General Information	exposure : No data available
Inhalation	: No data available
Skin contact	: No data available
Eye contact	: No data available
Ingestion	: No data available
Toxicology, Metabolism	
Remarks	: No data available
<b>Neurological effects</b> Remarks	: No data available
Further information	
Remarks	: May cause respiratory irritation.
<b>Other Health Hazards</b> No data available	

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ECTION 12: Ecological infor	ma	tion
.1 Toxicity		
Toxicity to fish	:	LC50 (zebra fish): 268 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 54 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	No data available
Toxicity to fish (Chronic toxi- city)	:	No data available
Toxicity to daphnia and other aquatic invertebrates (Chro- nic toxicity)	:	No data available
Toxicity to microorganisms	:	No data available
Toxicity to soil dwelling orga- nisms	:	No data available
Plant toxicity	:	No data available
Sediment toxicity	:	No data available
Toxicity to terrestrial orga- nisms	:	No data available
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
Chronic aquatic toxicity	:	No data available
Toxicity Data on Soil	:	No data available
Other organisms relevant to the environment	:	No data available
2 Persistence and degradabil	itv	
Biodegradability	:	No data available
Biochemical Oxygen De- mand (BOD)	:	No data available
Chemical Oxygen Demand (COD)	:	No data available
BOD/COD	:	No data available

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ThOD	: No data available
BOD/ThOD	: No data available
Dissolved organic carbon (DOC)	: No data available
Physico-chemical removabili- ty	: No data available
Stability in water	: No data available
Impact on Sewage Treat- ment	: No data available
Photodegradation	: No data available
2.3 Bioaccumulative potential Bioaccumulation	: No data available
Partition coefficient: n- octanol/water	<ul> <li>log Pow: 2,6</li> <li>According to logP value this compound is not bioaccumulati ve.</li> </ul>
2.4 Mobility in soil	
Mobility	: No data available
Distribution among environ- mental compartments	: No data available
Stability in soil	: No data available
2.5 Results of PBT and vPvB as	sessment
Assessment	: No data available
<b>2.6 Endocrine disrupting prope</b> No data available	rties
2.7 Other adverse effects	
Environmental fate and pa- thways	: No data available
Adsorbed organic bound halogens (AOX)	: No data available
Ozone-Depletion Potential	: No data available
Additional ecological informa-	· No data available



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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Chemical incinerator equipped with an afterburner and scrubber is the recommended method of disposal for this material. Observe all local and national regulations when disposing of this material.

<b>SECTION 14: Transport inform</b>	nation	
14.1 UN number		
ADR/RID: UN 2811	IMDG: UN 2811	IATA: UN 2811
14.2 UN proper shipping name		
TOXIC SOLID, ORGANIC, N	I.O.S. (Formoterol fumarate di	hydrate)
14.3 Transport hazard class(es)	(ADR/RID, IMDG, ICAO/IATA)	)
ADR/RID: 6.1	IMDG: 6.1	IATA: 6.1
14.4 Packing group		
ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards		
ADR/RID: -	IMDG: -	IATA: -
14.6 Special precautions for use	r	
Tunnel restriction code	: No data available	
Further information for trans port	- : No data available	
14.7 Transport in bulk according Not applicable	to Annex II of MARPOL 73/7	78 and the IBC code
SECTION 15: Regulatory info	rmation	
•		specific for the substance or mix-
-		specific for the substanc

#### **15.2 Chemical Safety Assessment**

No

## **SECTION 16: Other information**

#### Full text of H-Statements

H370	Cause
H372	Cause

auses damage to organs. auses damage to organs through prolonged or repeated

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H412	exposure. Harmful to aquatic life with long lasting effects.			
H330 H361d	Fatal if inhaled. Suspected of damaging the unborn child.			
113010	Suspected of damaging the unborn child.			
Full text of othe	er abbreviations			
STOT SE STOT RE	: Specific target organ toxicity - single exposure			
Aquatic Chronic	<ul> <li>Specific target organ toxicity - repeated exposure</li> <li>Long-term (chronic) aquatic hazard</li> </ul>			
Acute Tox.	: Acute toxicity			
Repr.	: Reproductive toxicity			
ADN - Europear Waterways	n Agreement concerning the International Carriage of Dangerous Goods by Inland			
ADR - Agreeme	ent concerning the International Carriage of Dangerous Goods by Road			
AIIC - Australiar	n Inventory of Industrial Chemicals			
ASTM - America	an Society for the Testing of Materials			
bw - Body weigł	nt			
CLP - Classifica	ation Labelling Packaging Regulation			
Regulation (EC)	Regulation (EC) No 1272/2008			
CMR - Carcinog	gen, Mutagen or Reproductive Toxicant			
DIN - Standard	of the German Institute for Standardisation			
DSL - Domestic	: Substances List (Canada)			
ECHA - Europea	an Chemicals Agency			
EC-Number - Eu	uropean Community number			
ECx - Concentra	ation associated with x% response			
ELx - Loading ra	ate associated with x% response			
EmS - Emergen	icy Schedule			
ENCS - Existing	g and New Chemical Substances (Japan)			
ErCx - Concentr	ration associated with x% growth rate response			
GHS - Globally	Harmonized System			
GLP - Good Lat	poratory Practice			
IARC - Internation	onal Agency for Research on Cancer			
IATA - Internatio	onal Air Transport Association			
IBC - Internatior micals in Bulk	nal Code for the Construction and Equipment of Ships carrying Dangerous Che-			
IC50 - Half max	imal inhibitory concentration			
ICAO - Internati	onal Civil Aviation Organization			
IECSC - Invento	ory of Existing Chemical Substances in China			
IMDG - Internati	ional Maritime Dangerous Goods			
IMO - Internatio	nal Maritime Organization			
ISHL - Industria	l Safety and Health Law (Japan)			

**Fermion** 

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ISO - Interna	ational Organisation for Standardizatio	
	a Existing Chemicals Inventory	
	al Concentration to 50 % of a test popu	ulation
	al Dose to 50% of a test population (M	
	nternational Convention for the Prever	·
	Otherwise Specified	
	lo Observed (Adverse) Effect Concen	tration
. ,	lo Observed (Adverse) Effect Level	
. ,	Observable Effect Loading Rate	
	/ Zealand Inventory of Chemicals	
	anization for Economic Co-operation a	and Development
-	ice of Chemical Safety and Pollution F	
	tent, Bioaccumulative and Toxic subs	
PICCS - Phil		hemical Substances (Q)SAR - (Quantitative)
	gulation (EC) No 1907/2006 of the Eustration, Evaluation, Authorisation and	ropean Parliament and of the Council concern- Restriction of Chemicals
RID - Regula	ations concerning the International Ca	rriage of Dangerous Goods by Rail
SADT - Self-	Accelerating Decomposition Tempera	ature
SDS - Safety	/ Data Sheet	
SVHC - subs	stance of very high concern	
TCSI - Taiwa	an Chemical Substance Inventory	
TECI - Thaila	and Existing Chemicals Inventory	
TRGS - Tech	nnical Rule for Hazardous Substances	3
TSCA - Toxic	c Substances Control Act (United Stat	es)
UN - United I	Nations	
vPvB - Very	Persistent and Very Bioaccumulative	
Further info	rmation	
Other informa	ation : No data availab	le
Sources of k	ev data used to : Information prov	vided by the supplier

Sources of key data used to compile the Material Safety Data Sheet	:	Information provided by the supplier
Information which has been added, deleted or revised	:	Updated section / sections: 1

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the spe-



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cific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.