

Tulobuterol hydrochloride, reference material

R1404-10MG

	Revision Date 07/04/2019	Print Date 05/16/20
CTION 1. IDENTIFICATION		
Product name	: Tulobuterol hydrochloride, reference	ematerial
Number	: 00000023434	
Product Use Description	: Laboratory chemicals, Reference St	andard
Note	This sample is for research and development purposes only. The handling and use of this material must be supervised by qualified individuals. The chemical, physical and toxicological properties of this material have not been fully investigated. Use due precaution in handling, storage and disposal.	
Manufacturer or supplier's details	: Honeywell International Inc. 1953 South Harvey Street	
For more information call	Muskegon, MI 49442 : 1-800-368-0050 +1-231-726-3171(Monday-Friday, 9	:00am-5:00pm)
In case of emergency call	: Medical: 1-800-498-5701 or +1-303	8-389-1414
in case of emergency can	 Transportation (CHEMTREC): 1-80 +1-703-527-3887 	
in case of emergency can	: Transportation (CHEMTREC): 1-8	
in case of emergency can	Transportation (CHEMTREC): 1-80 +1-703-527-3887	
CTION 2. HAZARDS IDENTIF	 Transportation (CHEMTREC): 1-86 +1-703-527-3887 : : (24 hours/day, 7 days/week) 	
CTION 2. HAZARDS IDENTIF Emergency Overview	 Transportation (CHEMTREC): 1-86 +1-703-527-3887 : (24 hours/day, 7 days/week) FICATION 	
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CTION 2. HAZARDS IDENTIF Emergency Overview Form	 Transportation (CHEMTREC): 1-80 +1-703-527-3887 : (24 hours/day, 7 days/week) FICATION : powder 	
CTION 2. HAZARDS IDENTIF Emergency Overview Form Color	 Transportation (CHEMTREC): 1-86 +1-703-527-3887 : (24 hours/day, 7 days/week) FICATION : powder : white : no data available 	
CTION 2. HAZARDS IDENTIF Emergency Overview Form Color Odor Classification of the substa	 Transportation (CHEMTREC): 1-86 +1-703-527-3887 : (24 hours/day, 7 days/week) FICATION : powder : white : no data available 	

SAFETY DATA SHEET			Honeywell Fluka [™]
Tulobuterol hydrochlori	ide, reference	material	
R1404-10MG			
Version 1.0	Revision Date	07/04/2019	Print Date 05/16/2023
GHS Label elements, includi	ng precautionary s	statements	
Symbol(s)	:		
Signal word	: Warning		
_	-		
Hazard statements	: Harmful if swal	lowed.	
Precautionary statements	: Prevention:	oughly after handling.	
	Do not eat, drir	nk or smoke when using	
	Wear protective	e gloves/ eye protection	/ face protection.
	Response:		
	IF SWALLOWE unwell. Rinse n	ED: Call a POISON CEN nouth.	ITER/doctor if you feel
	Disposal: Dispose of con plant.	tents/ container to an ap	oproved waste disposal
Carcinogenicity			
No component of this product p anticipated carcinogen by NTP,	resent at levels grea , IARC, or OSHA.	ater than or equal to 0.19	% is identified as a known or
SECTION 3. COMPOSITION/INFO		REDIENTS	
Formula	: C12H18CINO *	HCI	
Chemical nature	: Substance		
Chemical na	ime	CAS-No.	Concentration
Tulobuterol hydrochloride		56776-01-3	<=100.00 %
	Page 2 /	/ 11	



Tulobuterol hydrochloride, reference material

R1404-10MG

Version 1.0 Revision Date 07/04/2019 Print Date 05/16/2023

General advice	: First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately. Show th safety data sheet to the doctor in attendance.	is
Inhalation	: If inhaled, remove to fresh air. Call a physician if irritation develops or persists.	
Skin contact	: After contact with skin, wash immediately with plenty of water Get medical attention if irritation develops and persists.	
Eye contact	: In the case of contact with eyes, rinse immediately with plenty water and seek medical advice.	of
Ingestion	: If swallowed, DO NOT induce vomiting unless directed to do s by medical personnel. If victim is fully conscious, give a cupful water. Call a physician.	
Notes to physician		
Indication of immediate medical attention and special treatment needed, if necessary	: Treat symptomatically.	
TION 5. FIREFIGHTING MEA	SURES	
Suitable extinguishing media	: Water spray Foam Carbon dioxide (CO2) Dry powder	
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.	I
Specific hazards during firefighting	 The product is not flammable. In case of fire hazardous decomposition products may be produced such as: carbon oxides (CO, CO2), nitrogen oxides (NOx). Hydrogen chloride gas 	
	Page 3 / 11	

SAFETY DATA SHEET Tulobuterol hydrochloride, reference material

Honeywell Fluka[™]

sion 1.0		Revision Date 07/04/2019	Print Date 05/16/20
Special protective equipment for firefighters		: Wear self-contained breathing appar	atus and protective suit.
Further information		: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
CTION 6. ACCIDENTAL RELE	EAS	SE MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Wear personal protective equipment. must be kept away. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clot	
Environmental precautions	:	Prevent further leakage or spillage if s	safe to do so.
Methods and materials for containment and cleaning up	:	Use mechanical handling equipment. Sweep up and shovel into suitable con Dispose of in accordance with local re	
CTION 7. HANDLING AND ST Handling	OR	AGE	
Advice on protection against fire and explosion	:	Normal measures for preventive fire p	protection.
	:	Normal measures for preventive fire p	protection.
fire and explosion	:	Normal measures for preventive fire p Store in original container. Keep containers tightly closed in a dry place.	
fire and explosion Storage Conditions for safe storage, including any incompatibilities	:	Store in original container. Keep containers tightly closed in a dry	
fire and explosion Storage Conditions for safe storage, including any incompatibilities	:	Store in original container. Keep containers tightly closed in a dry place.	/, cool and well-ventilated

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ulobuterol hydrochlo	oride, reference material	
1404-10MG		
rsion 1.0	Revision Date 07/04/2019	Print Date 05/16/20
	the workstation location. Legal requirements are to be cons selection, use and care of persona Avoid breathing dust. Avoid contact with skin, eyes and o	al protective equipment.
Engineering measures	: Use with local exhaust ventilation.	
Eye protection	: Safety glasses with side-shields	
Hand protection	: Latex gloves Gloves must be inspected prior to Replace when worn.	use.
Skin and body protection	: Wear suitable protective equipmer Wear as appropriate: Protective suit	nt.
Respiratory protection	: In case of insufficient ventilation, w equipment.	vear suitable respiratory
Hygiene measures	: Keep working clothes separately. Wash hands before breaks and at	the end of workday.
Exposure Guidelines		the end of workday.
Exposure Guidelines	Wash hands before breaks and at	the end of workday.
Exposure Guidelines Contains no substances with	Wash hands before breaks and at	the end of workday.
Exposure Guidelines Contains no substances with CTION 9. PHYSICAL AND C	Wash hands before breaks and at n occupational exposure limit values.	the end of workday.
Exposure Guidelines Contains no substances with CTION 9. PHYSICAL AND C Physical state	Wash hands before breaks and at n occupational exposure limit values. HEMICAL PROPERTIES : powder	the end of workday.
Exposure Guidelines Contains no substances with ECTION 9. PHYSICAL AND C Physical state Color	Wash hands before breaks and at n occupational exposure limit values. HEMICAL PROPERTIES : powder : white	the end of workday.
Exposure Guidelines Contains no substances with ECTION 9. PHYSICAL AND C Physical state Color Odor	Wash hands before breaks and at n occupational exposure limit values. HEMICAL PROPERTIES : powder : white : no data available	the end of workday.
Exposure Guidelines Contains no substances with ECTION 9. PHYSICAL AND C Physical state Color Odor Odor threshold	Wash hands before breaks and at n occupational exposure limit values. HEMICAL PROPERTIES : powder : white : no data available : Note: no data available	the end of workday.
Exposure Guidelines Contains no substances with ECTION 9. PHYSICAL AND C Physical state Color Odor Odor threshold pH	Wash hands before breaks and at n occupational exposure limit values. HEMICAL PROPERTIES : powder : white : no data available : Note: no data available : Note: no data available	the end of workday.



Tulobuterol hydrochloride, reference material R1404-10MG Version 1.0 Revision Date 07/04/2019 Print Date 05/16/2023 Flash point : Note: Not applicable Evaporation rate : Note: no data available Flammability : The product is not flammable. Lower explosion limit : Note: no data available Upper explosion limit : Note: no data available : Note: no data available Vapor pressure Vapor density : Note: no data available Density : Note: no data available Water solubility : Note: no data available Partition coefficient: : Note: no data available n-octanol/water Ignition temperature : Note: no data available Decomposition temperature : Note: No decomposition if stored and applied as directed. Viscosity, dynamic : Note: no data available Viscosity, kinematic : Note: no data available Molecular weight : 264.19 g/mol Page 6 / 11

SAFETY DATA SHEET		Honeywell Fluka [™]
R1404-10MG	ride, reference material	
/ersion 1.0	Revision Date 07/04/2019	Print Date 05/16/202
Bulk density	: Note: no data available	
SECTION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable under recommended storag	e conditions.
Possibility of hazardous reactions	: Hazardous decomposition products conditions.	s formed under fire
Conditions to avoid	: Avoid dust formation.	
Incompatible materials	: Strong oxidizing agents Strong acids	
Hazardous decomposition products	 In case of fire hazardous decompo produced such as: carbon oxides (CO, CO2) and nitro Hydrogen chloride gas 	
SECTION 11. TOXICOLOGICAL Acute oral toxicity	: LD50: 560 mg/kg	
	: LD50: 560 mg/kg	
Acute oral toxicity	: LD50: 560 mg/kg Species: Rat	
Acute oral toxicity Acute inhalation toxicity	 LD50: 560 mg/kg Species: Rat Note: no data available 	
Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity	 LD50: 560 mg/kg Species: Rat Note: no data available Note: no data available 	



Tulobuterol hydrochloride, reference material

R1404-10MG

404-10MG		
sion 1.0	Revision Date 07/04/2019	Print Date 05/16/2
Sensitisation	: Note: no data available	
Repeated dose toxicity	: Note: no data available	
Genotoxicity in vitro	: Note: no data available	
CTION 12. ECOLOGICAL INFO	RMATION	
Ecotoxicity effects		
Toxicity to fish	: Note: no data available	
Toxicity to daphnia and other aquatic invertebrates	: Note: no data available	
Toxicity to algae	: Note: no data available	
Elimination information (per	sistence and degradability)	
Biodegradability	: Note: no data available	
Further information on ecolo	ду	
Additional ecological information	: no data available	
CTION 13. DISPOSAL CONSID	ERATIONS	
Disposal methods	: Observe all Federal, State, and Loc regulations.	al Environmental
CTION 14. TRANSPORT INFO	MATION	
DOT Not dangerous go	ods	

Honeywell SAFETY DATA SHEET Fluka **Tulobuterol hydrochloride, reference material** R1404-10MG Version 1.0 Revision Date 07/04/2019 Print Date 05/16/2023 TDG Not dangerous goods ΙΑΤΑ Not dangerous goods IMDG Not dangerous goods SECTION 15. REGULATORY INFORMATION Inventories US. Toxic Substances : Not On TSCA Inventory Control Act Australia. Industrial : Not in compliance with the inventory Chemical (Notification and Assessment) Act Canada, Canadian : Not in compliance with the inventory Environmental Protection Act (CEPA). Domestic Substances List (DSL) Japan. Kashin-Hou Law List : Not in compliance with the inventory Korea. Existing Chemicals : Not in compliance with the inventory Inventory (KECI) Philippines. The Toxic : Not in compliance with the inventory Substances and Hazardous and Nuclear Waste Control Act China. Inventory of Existing : Not in compliance with the inventory Chemical Substances (IECSC) New Zealand. Inventory of : Not in compliance with the inventory Chemicals (NZIoC), as published by ERMA New Zealand Page 9 / 11

Honeywell SAFETY DATA SHEET Fluka **Tulobuterol hydrochloride, reference material** R1404-10MG Version 1.0 Revision Date 07/04/2019 Print Date 05/16/2023 National regulatory information : This material must be used in compliance with the TSCA TSCA Research and Development Exemption requirements (40 CFR 720.36). ŝ, SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards : Acute Health Hazard California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. **SECTION 16. OTHER INFORMATION** HMIS III **NFPA** Health hazard : 1 1 Flammability : 1 1 Physical Hazard : 0 Instability 0 : Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system. Further information Page 10 / 11



Tulobuterol hydrochloride, reference material

R1404-10MG

Version 1.0

Revision Date 07/04/2019

Print Date 05/16/2023

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 specific 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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

Page 11 / 11