

Revision: 11/24/2018 Supersedes Revision: 01/21/2014

	CHEMICAL		Supersedes Revision: 01/21/2014				
according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015							
	Section 1. Ide	entification of the Substance/Mixture and of the	he Company/Undertaking				
.1	Product Code:	14406					
	Product Name:	5-(N-ethyl-N-isopropyl)-Amiloride					
	Synonyms:	3-amino-N-(aminoiminomethyl)-6-chloro-5-[eth	nyl(1-methylethyl)amino]-2-pyrazinecarboxamide				
		EPIA; L-593,754; MH 12-43;					
1.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses:	For research use only, not for human or veteri	inary use.				
1.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd.					
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
1.4	Emergency telephone numb						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.1	Classification of the Substa	nce or Mixture:					
2.2	Label Elements:						
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H315: Causes skin irritation.						
	H319: Causes serious eye irritation.						
	H335: May cause respirator	y irritation.					
	GHS Precaution Phrases:						
	P264: Wash {hands} thoroughly after handling.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	P362+364: Take off contaminated clothing and wash it before reuse.						
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.						
	GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.						
	P302+352. If ON Skink, wash with plenty of soap and water. P332+313: If skin irritation occurs, get medical advice/attention.						
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy						
	to do. Continue rinsing.	,					
	· ·	ersists, get medical advice/attention.					
		CENTER or doctor/physician if exposed or you fe	eel unwell.				
	P304+340: IF INHALED: Re	move victim to fresh air and keep at rest in a pos	sition comfortable for breathing.				
	GHS Storage and Disposa	I Phrases:					
	Please refer to Section 7 for	Storage and Section 13 for Disposal information	.				

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		e Human Health and Symptoms:	Causes skin irritation. Material may be irritating to t May be harmful by inhalation May cause respiratory irritati	erial may be irritating to the mucous membranes and upper respiratory tract. / be harmful by inhalation, ingestion, or skin absorption.				
		Sect	tion 3. Composition	/Information	on Ingredie	nts		
CAS RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
1154 NA	4-25-2	5-(N-ethyl-N-isoprop	yl)-Amiloride	100.0 %	634-217-2 NA	Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336		
		•	Section 4. Fi	rst Aid Meas	ures			
4.1	Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel Get immediate medical attention.							
	In Case	of Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminated efore reuse.		
	In Case	of Eye Contact:	Hold eyelids apart and flush and tested by medical persor		water for at least 1	5 minutes. Have eyes examined		
	In Case	of Ingestion:	estion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.					
			Section 5. Fire	Fighting Me	asures			
5.1	Suitable Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-		-	spray.		
	Unsuita Media:	able Extinguishing	A solid water stream may be	inefficient.				
5.2		Flammable Properties andNo data available. Hazards:						
			No data available.					
	Flash P	rt: ive Limits:	No data. LEL: No data.	UEL: No c	lata			
	-	nition Pt:	No data.	OLL. NO				
	Autoiar							
5.3	-	hting Instructions	s: As in any fire, wear self-cont equivalent), and full protectiv			emand (NIOSH approved or d eyes.		



6.1

6.2

8.1

Hg):

Vapor Density (vs. Air = 1):

No data.

SAFETY DATA SHEET

1	-	SAFEIT DATA SHEET
		5-(N-ethyl-N-isopropyl)-Amiloride Revision: 11/24/2018
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		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3	Methods and Material For	Contain spill and collect, as appropriate.
	Containment and Cleanin	${f g}$ Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sect	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equi	oment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing	:Lab coat
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	-
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
		Wash thoroughly after handling.
r		No data available.
	S	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phys	sical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A crystalline solid
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	No data.
	Evaporation Rate: Flammability (solid, gas):	No data. No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air o	
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	Specific Gravity (Water =	-					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution ~20 mg/ml in DMF;	~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~2 mg/ml in EtOH; ~14 mg/ml in DMSO; ~20 mg/ml in DMF:				
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat	ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ght: C11H18CIN7O 299.8					
		Section 10. Stability	and Reactiv	vity			
10.1	Reactivity:	No data available.					
10.2	Stability:	Unstable [] Stable [X]					
10.3	Stability Note(s):	Stable if stored in accordance with	information listed of	on the product	insert.		
	Polymerization:	Will occur [] Will not occur [>	<]				
10.4	Conditions To Avoid:	No data available.					
10.5	Incompatibility - Materials	strong oxidizing agents					
	To Avoid:						
10.6	Hazardous	carbon dioxide	on dioxide				
	Decomposition or	carbon monoxide					
	Byproducts:	hydrogen chloride gas					
		nitrogen oxides					
		Section 11. Toxicolog	gical Informa	ation			
11.1	Information on	The toxicological effects of this pro-	duct have not beer	n thoroughly st	udied.		
	Toxicological Effects:						
CAS #	# Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
115	4-25-2 5-(N-ethyl-N-isop	ropyl)-Amiloride	n.a.	n.a.	n.a.	n.a.	
		Section 12. Ecologi	cal Informat	ion			
12.1	Toxicity:	Avoid release into the environment					
		Runoff from fire control or dilution v	vater may cause po	ollution.			
12.2	Persistence and	No data available.					
	Degradability:						
12.3	Bioaccumulative	No data available.					
	Potential:						
12.4	Mobility in Soil:	No data available.					
12.5	Results of PBT and vPvB	No data available.					
	assessment:						
12.6	Other adverse effects:	No data available.					



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		Section 13. Dispos	sal Considerat	tions		
3.1 Waste Dis	sposal Method:	Dispose in accordance with loca	al, state, and federal	regulations.		
		Section 14. Tran	sport Informa	tion		
LAND TR	ANSPORT (US I	DOT):	-			
DOT Proper	Shipping Name:	Not dangerous goods.				
DOT Hazard	Class:					
UN/NA Numb	per:					
14.1 LAND TR	ANSPORT (Euro	opean ADR/RID):				
	pping Name:	Not dangerous goods.				
UN Number: Hazard Class						
	s. NSPORT (ICAO/I	۱۵۲۵).				
	hipping Name:	Not dangerous goods.				
Additional Trans		Transport in accordance with lo	cal, state, and federa	al regulations.		
Information:				0		
		Section 15. Regul	latory Informa	tion		
EPA SARA (Sup	erfund Amendm	ents and Reauthorization Act	•			
		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1154-25-2 5	5-(N-ethyl-N-isop	ropyl)-Amiloride	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
1154-25-2 5	5-(N-ethyl-N-isop	ropyl)-Amiloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Infor	mation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.				
		Section 16. Oth	ner Informatio	n		
Revision Date:		11/24/2018				
Additional Inform	nation About	No data available.				
This Product:						
Company Policy	or Disclaimer:	DISCLAIMER: This information		•		
		currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its				
		use. Users should make their own investigations to determine the suitability of the information for				
		their particular purposes.				

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