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SAFETY DATA SHEET

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man	Nilutamide	R	evision: 03/06/2018
accor	rding to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008	
Section 1. Id	lentification of the Substance/Mixture and of th	e Company/Undertaking	
Product Code:	23953		
Product Name:	Nilutamide		
Synonyms:	5,5-dimethyl-3-[4-nitro-3-(trifluoromethyl)pheny	l]-2,4-imidazolidinedione; RL	J-23908;
Relevant identified uses of	the substance or mixture and uses advised aga	amide limethyl-3-[4-nitro-3-(trifluoromethyl)phenyl]-2,4-imidazolidinedione; RU-23908; stance or mixture and uses advised against: esearch use only, not for human or veterinary use. 7 Data Sheet: nan Chemical Company E. Ellsworth Rd. Arbor, MI 48108 .caymanchem.com nan Chemical Company +1 (734)971-3335 MTREC Within USA and Canada: +1 (800)424-9300 MTREC Outside USA and Canada: +1 (703)527-3887 ection 2. Hazards Identification Mixture:	
Relevant identified uses:	For research use only, not for human or veterin	ary use.	
Details of the Supplier of th	e 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	
Emergency telephone num	ber:		
Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300	
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887	
	Section 2. Hazards Identifica	ation	
Classification of the Substa		ation	
Classification of the Substa Acute Toxicity: Oral, Cate	ance or Mixture:	ation	
Acute Toxicity: Oral, Cate	ance or Mixture: egory 3	ation	
	ance or Mixture: egory 3	ation	
Acute Toxicity: Oral, Cate Toxic To Reproduction, C Label Elements:	ance or Mixture: egory 3 Category 1B	ation	
Acute Toxicity: Oral, Cate Toxic To Reproduction, C Label Elements: GHS Signal Word:	ance or Mixture: egory 3	ation	
Acute Toxicity: Oral, Cate Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases:	ance or Mixture: egory 3 Category 1B	ation	
Acute Toxicity: Oral, Cate Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed.	ance or Mixture: egory 3 Category 1B Danger	ation	
Acute Toxicity: Oral, Cate Toxic To Reproduction, O Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H360: May damage fertility	ance or Mixture: egory 3 Category 1B Danger or the unborn child.	ation	
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Acute Toxicity: Oral, Cate Toxic To Reproduction, C Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H360: May damage fertility GHS Precaution Phrases: P201: Obtain special instrue P202: Do not handle until a P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+310: IF SWALLOWE P308+313: IF exposed or c	ance or Mixture: agory 3 Category 1B Danger or the unborn child. ctions before use. Il safety precautions have been read and understo ughly after handling. ves/protective clothing/eye protection/face protection is: D: Immediately call a POISON CENTER or doctor. concerned: Get medical attention/advice.	od. on}.	

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2.3		e Human Health	Material may be irritating to t		nes and upper re	spiratory tract.			
Effects and Symptoms:		and Symptoms:	May be harmful by inhalation	-					
			May cause eye, skin, or resp		ion.				
			May damage fertility or the u	nborn child.					
			Toxic if swallowed.			the second second by investigation to a			
					-	t been thoroughly investigated.			
		1	tion 3. Composition	/Information		1			
CAS #		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
6361 NI9453	2-50-0 3300	Nilutamide		100.0 %	624-700-6 NA	Acute Tox.(O) 3: H301 Toxic Repro. 1B: H360			
			Section 4. Fi	rst Aid Measu	ures				
4.1	Descrip	otion of First Aid							
	Measur								
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		I respiration or gi	ve oxygen by trained personnel.			
	In Case	of Skin Contact:			ater for at least 15	5 minutes. Remove contaminate			
			clothing. Get medical attentio	· · ·					
	In Case	of Eye Contact:	Hold eyelids apart and flush e	old eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined					
			and tested by medical persor	nnel.					
	In Case	of Ingestion:	Wash out mouth with water p	-	-				
			-	dical attention. Do N	OT induce vomiti	ng unless directed to do so by			
			medical personnel.						
			Section 5. Fire	<u> </u>					
5.1		e Extinguishing	Use alcohol-resistant foam, o		r, or dry chemical	l spray.			
	Media:	hle Futinguighing	Use water spray to cool fire-exposed containers.						
	Media:	ible Extinguishing	A solid water stream may be	memcient.					
5.2		able Properties an	dNo data available.						
0.2	Hazard	-							
			No data available.						
	Flash F	Pt:	No data.						
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.				
	-	nition Pt:	No data.						
5.3	-		s: As in any fire, wear self-cont	ained breathing appa	aratus pressure-d	lemand (NIOSH approved or			
	-		equivalent), and full protectiv	e gear to prevent co	ntact with skin ar	nd eyes.			
						Multi-region form			



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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 Cleaning	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.
	Secti	on 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 equip	ment:
	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	Do not take internally.
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physi	cal 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:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air or Hg):	mm No data.
	пу): Vapor Density (vs. Air = 1):	No data.
		Multi-region forma

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10.2 Stability: Unstable [] Stable [X] 10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: Incompatibility - Materials strong oxidizing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: Information 11.1 Information on Toxicological Effects: Niduamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Niduamide PTECS Number: Ni9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGH OSHA 83612-50-0 Nilutamide No data available. In.a. n.a. n.a. n.a. 12.1 Toxicological Inform form file control or dilution water may cause pollution. In.a. n.a. n.a. 12.1 Toxicological Noide available. Persistence and No data available. No data available. In.a. n.a. n.a. <t< th=""><th></th><th>Specific</th><th>Gravity (Water =</th><th>1):</th><th>No data.</th><th></th><th></th><th></th><th></th><th></th></t<>		Specific	Gravity (Water =	1):	No data.					
Octanol/Water Partition No data. Coefficient: Autoignition Pt: No data. Decomposition Temperature: No data. 20 Other Information Percent Volatile: No data. 21 Other Information Percent Volatile: No data. 22 Section 10. Stability and Reactivity Image: Comparison of the product insert. 23 Stability Note(s): Stability Stability agents Image: Comparison of the product insert. Polymerization: Will occur [] Will not occur [X] Image: Comparison of the product insert. 10.1 Reservity: No data available. Image: Comparison of the product insert. Polymerization: Will occur [] Will not occur [X] Image: Comparison of the product insert. 10.4 Conditions To Avoid: Carchon monoxide Byproducts: hydrogen fluoride Byproducts: hydrogen fluoride Image: coral to fill the product have not been horocophy studied. Its may fluoride 11.1 Information on The toxicological effects of this product have not been horocophy studied. Its may fluoride 11.250 (mouse): 100 mg/kg: Intrapentioneal LD50 (mouse): 150 mg/kg: Coral LD50 (mouse): 150 mg/kg: Coral LD50 (mouse): 150 mg/kg		Solubilit	y in Water:		No data.					
Coefficient: Autoignition Pr: No data. Decomposition Temperature: No data. Viscosity: No data. 92 Other Information Percent Volatile: No data. Molecular Formula & Weight: C12H10F3N304 317.2 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability: Unstable [] Stable [] 10.3 Stability: No data available. 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility- Materials storing oxidizing agents To Avoid: 10.5 Incompatibility - Materials storing oxidizing agents To Avoid: 10.5 Incompatibility - Materials storing oxidizing agents To Avoid: 10.4 Conditions on carbon monoxide Bygoroducts: hydrogen fluoride nitrogen oxides 11.1 Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Nitutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only scheraberinotenel LDE0 (role):		Solubilit	y Notes:		~25 mM in EtOH & DMSO; S	Soluble (slig	ghtly) in: d	hloroform; N	MeOH;	
Autoignition Pr: No data. Decomposition Temperature: No data. Viscosity: No data. 92 Other Information Percent Volatilit: No data. Molecular Formula & Weight: C12H10F3N304 317.2 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability: Unstable [] Stable [X] 10.3 Stability Note(s): Stable [] Vill occur [X] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or Carbon monoxide Byproducts: hydrogen fluoride 11.1 Information on The toxicological effects of this product have not bean thoroughly studied. 11.2 Information on The toxicological effects of the inductive studies as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substance (RTECS) data is presented here. See actual entry in RTECS for complete information. Nituatide - Tressigatery of Toxic Effect		Octanol/	Water Partition		No data.					
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Viscosity: No data. 92 Other Information Percent Volatile: No data. Molecular Formula & Weight: C12H10F3N304 317.2 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability Note(s): Stabile if Stability and Cecactivity 10.3 Stability Note(s): Stability account [] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility Materials strong oxidizing agents To Avoid: Stability Note(s): Stability if Strong oxidizing agents To Avoid: 10.6 Hazardous Carbon monoxide Byproducts: Invitragen nuicide nitrogen oxides Not at the product have not been thoroughly studied. 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 12.60 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Intraperitoneal LD50 (mouse): 12.61 (mouse): 200 mg/kg: Intraperitoneal LD50 (mouse): 150 mg/kg; 13.1 Information The toxicological as a mutagen, reproductive effector, and tumorigen. Effects: 13.1 Information Elegistry in Toxic Effects of Chemical Subtanc		-		ure:	No data.					
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Molecular Formula & Weight: C12H10F3N3O4 317.2 Section 10. Stability and Reactivity 10.1 Reactivity: No data available. 10.2 Stability: Unstable [] Stability: 10.3 Stability: Unstable [] Stability: 10.4 Stability: Unstable [] Will occur [] 10.5 Stability: Molecular Formula & Weight: No data available. 10.5 Incompatibility: Molecular formation isted on the product insert. Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility: Materials strong oxidizing agents To Avoid: Incompatibility: Materials strong oxidizing agents 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: Nidrogen oxides Noticological Information The toxicological effects of this product have not been throroughly studied. Toxicological Nituramide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only se	0				No data					
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10.3 Stability Note(s): Stability Note(s): Stability Note(s): Stability Note(s): 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: Incompatibility - Materials strong oxidizing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen fluoride nitrogen oxides Section 11. Toxicological Information 11.1 Information on Toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Nilutamide - Toxicily Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide Section 12. Ecological Information 121 Section 12. Ecological Information 122 No data available. Degradability: 121	10.1		-							
Polymerization: Will occur [] Will not occur [X] 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials strong oxid/zing agents To Avoid: Incompatibility - Materials strong oxid/zing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen fluoride nitrogen oxides Section 11. Toxicological Information Toxicological Effects: Nilutamide - Toxici/ Data: Oral LD50 (ral): 195 mg/kg; Intraperitoneal LD50 (ral): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 mg/kg; Chronic Toxicological Nilutamide - Toxici/ Data: Oral LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Toxicif Data: Oral LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Toxicif Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide Section 12. Ecological Information Section 12. Ecological Information 121 Section 12. Ecological Information 121 Section 12. Ecological Information <		-								
 10.4 Conditions To Avoid: No data available. 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen fluoride nitrogen oxides Section 11. Toxicological Information 11.1 Information on Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intrapertioneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intrapertioneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intrapertioneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide Mutagen, reproductive effector. Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: 12.3 Bioaccumulative No data available. Potential: 12.4 Mobility in SOI: No data available. Potential: 12.5 Results of PBT and vPvB No data available. assessment: 12.6 Other adverse effects: No data available. 	10.3	Stability	Note(s):	Stable	if stored in accordance with i	information	listed on	the product	insert.	
 10.5 Incompatibility - Materials strong oxidizing agents To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen fluoride nitrogen oxides Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide		Polymer	ization:	Will oc	ccur [] Will not occur [X]				
To Avoid: 10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen fluoride nitrogen oxides nitrogen oxides 11.1 Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg: Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. Integer 12.2 Persistence and No data available. No data available. Integer Integer 2.3 Bioaccumulative No data available. No data available. Integer Integer Integer 2.4 Mob	10.4	Conditio	ns To Avoid:	No dat	a available.					
10.6 Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: hydrogen fluoride nitrogen oxides Section 11. Toxicological Information 11.1 Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (mouse): 105 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 105 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effects of dumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 Nilutamide n.a. n.a. CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: <th>10.5</th> <th>Incompa</th> <th>tibility - Materials</th> <th>strong</th> <th>oxidizing agents</th> <th></th> <th></th> <th></th> <th></th> <th></th>	10.5	Incompa	tibility - Materials	strong	oxidizing agents					
Decomposition or Byproducts: carbon monoxide hydrogen fluoride nitrogen oxides Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: 12.3 Bioaccumulative No data available. Potential: 12.4 Mobility in Soli: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available		To Avoid	l:							
Byproducts: hydrogen fluoride nitrogen oxides Image: Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. Image: Runoff from fire control or dilution water may cause pollution. 12.3 Bioaccumulative No data available. Potential: No data available. Image: Runoff from fire control or dilution water may cause pollution. 12.4 Mobility in Soil: No data available. Image: Runoff from fire control f	10.6	Hazardo	us	carbor	n dioxide					
nitrogen oxides Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Toxicity Data: Oral LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. Potential: 12.4 Mobility in Soil: No data available. Information 12.3 Bioaccumulative No data available. Potential: 12.6 Other adverse effects:<		Decomp	osition or	carbor	n monoxide					
Section 11. Toxicological Information 11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. LECOlogical Information 12. Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.Persistence and Degradability: No data available. Potential: No data available. 12.3 Bioaccumulative No data available. No data available. Autority PB To ad vPVB No data available. 12.6 No data available. 12.6 Other adverse		Byprodu	cts:	hydrog	gen fluoride					
11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Effects: Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. 12.2 Persistence and Degradability: No data available. No data available. 12.3 Bioaccumulative No data available. No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available.				nitroge	en oxides					
11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 11.1 Information on Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Effects: Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. 12.2 Persistence and Degradability: No data available. No data available. 12.3 Bioaccumulative No data available. No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available.				Se	ection 11. Toxicoloc	gical Inf	ormati	on		
Toxicological Effects: Nilutamide - Toxicity Data: Oral LD50 (rat): 195 mg/kg; Intraperitoneal LD50 (rat): 125 mg/kg; Oral LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. No data available. Degradability: 12.3 Bioaccumulative No data available. Void tal available. 12.4 Mobility in Soil: No data available. Void tal available. Void tal available. 12.5 Results of PBT and vPvB No data available. Void tal available. Void tal available. 12.5 Other adverse effects: No data available. Void tal available. Void tal available.	11 1	Informat	ion on			,			udied	
LD50 (mouse): 200 mg/kg; Intraperitoneal LD50 (mouse): 150 mg/kg; Chronic Toxicological Effects: Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. Section 12. Ecological Information Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: 12.3 Bioaccumulative No data available. Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. 12.6 Other adverse effects: No data available.					•			• •		25 mg/kg: Oral
Chronic Toxicological Effects: Nilutamide - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information Investigated as a wailable. Section 12. Ecological Information Investigated as a wailable. Begradability: II.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. II.2. Persistence and No data available. No data available. Potential: 11. No data available. II. II. No data available. II. II. II. No data available. II.			gioai Encotor		•	. ,				- <u></u> , <u></u> , <u></u> , <u></u>
Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information Interview of the environment. Runoff from fire control or dilution water may cause pollution. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. Interview of PBT and vPvB No data available. 12.4 Mobility in Soil: No data available. Interview of PBT and vPvB No data available. 12.5 Results of PBT and vPvB No data available. Interview of PBT and vPvB No data available. 12.6 Other adverse effects: No data available. Interview of PBT and vPvB No data available.		Chronic	Toxicological				-		-	
See actual entry in RTECS for complete information. Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information Interview of the environment. Runoff from fire control or dilution water may cause pollution. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. View of the available. View of the available. 12.4 Mobility in Soil: No data available. View of PBT and vPvB No data available. 12.5 Results of PBT and vPvB No data available. View of Vie					-	-			-	sented here.
Nilutamide RTECS Number: NI9453300 CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information Interview of the environment. Runoff from fire control or dilution water may cause pollution. 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. Interview of PBT and vPvB No data available. 12.4 Mobility in Soil: No data available. Interview of PBT and vPvB No data available. 12.5 Results of PBT and vPvB No data available. Interview of PBT and vPvB No data available. 12.6 Other adverse effects: No data available. Interview of PBT and vPvB No data available.				-				,	, ,	
63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: 12.3 Bioaccumulative No data available. Potential: No data available. 12.4 Mobility in Soil: No data available. assessment: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available.						-				
63612-50-0 Nilutamide n.a. n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. Degradability: 12.3 Bioaccumulative No data available. Potential: No data available. 12.4 Mobility in Soil: No data available. assessment: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available.	CAS	#	Hazardous Com	ponent	s (Chemical Name)		ГР	IARC	ACGIH	OSHA
12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB assessment: No data available. 12.6 Other adverse effects: No data available.	6361	2-50-0	Nilutamide			n.a	a.	n.a.	n.a.	n.a.
12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB assessment: No data available. 12.6 Other adverse effects: No data available.				5	Section 12 Ecologic	cal Info	rmatio	<u> </u> n		-
12.2 Persistence and Degradability: No data available. 12.3 Bioaccumulative Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. No data available. 12.6 Other adverse effects: No data available.	12.1	Toxicity					mailo			
12.2Persistence and Degradability:No data available.12.3Bioaccumulative Potential:No data available.12.4Mobility in Soil:No data available.12.5Results of PBT and vPvB assessment:No data available.12.6Other adverse effects:No data available.	12.1	TOXICITY.					عبيده ممالي	ution		
Degradability: 12.3 Bioaccumulative No data available. Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available. 12.6 Other adverse effects: No data available.	40.0	Densister				ater may ca	ause poin			
12.3 Bioaccumulative No data available. Potential: No data available. 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available. 12.6 Other adverse effects: No data available.	12.2			No dai	a avallable.					
Potential: 12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment: No data available. 12.6 Other adverse effects: No data available.		-	-							
12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available. assessment:	12.3			No dat	a available.					
 12.5 Results of PBT and vPvB No data available. assessment: 12.6 Other adverse effects: No data available. 										
assessment: 12.6 Other adverse effects: No data available.	12.4	Mobility	in Soil:	No dat	a available.					
12.6 Other adverse effects: No data available.	12.5	Results	of PBT and vPvB	No da	ta available.					
		assessm	ent:							
Multi-region format	12.6	Other ad	verse effects:	No da	ta available.					
Multi-region format										
									N	ulti-region format

ayman		INI	lutamide		Revision: 03/06/2018	
		Section 13. Dispo	sal Considera	ations		
3.1 Waste	Disposal Method	: Dispose in accordance with loc	al, state, and federa	regulations.		
		Section 14. Trar	nsport Informa	ation		
14.1 LAND	TRANSPORT (US	S DOT):				
DOT Prop	er Shipping Nam	e: Toxic solids, organic, n.o.s	. (Nilutamide)			
DOT Haza	rd Class:	6.1 POISON				
UN/NA Nu	mber:	UN2811	Packing Gr	oup:	111	
14.1 LAND	TRANSPORT (FI	POISON 6 iropean ADR/RID):				
	Shipping Name:	Toxic solids, organic, n.o.s	(Nilutamide)			
UN Numbe		2811	Packing Gr	oup:	Ш	
Hazard Cla	ass:	6.1 - POISON	Ū	·		
14.3 AIR TR	ANSPORT (ICAC	D/IATA):				
ICAO/IATA	A Shipping Name	Toxic solids, organic, n.o.s	. (Nilutamide)			
UN Numbe	er:	2811	Packing Gr	oup:	III	
Hazard Cla	ass:	6.1 - POISON	IATA Class	fication:	6.1	
Additional Tra	insport	Transport in accordance with le When sold in quantities of less E1, E2, E4, or E5, this item me Therefore packaging does not	than or equal to 1 m eets the De Minimis (L, or 1 g, with an E Quantities exemption	on, per IATA 2.6.10.	
		Section 15. Regu		-		
			-			
CAS #		Iments and Reauthorization Act mponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
63612-50-0	Nilutamide		No	No	No	
			-			
CAS #		mponents (Chemical Name)	Other US EPA o			
63612-50-0	Nilutamide		PROP.65: No	NO; CWA NPDES	: No; TSCA: No; CA	
Regulatory Inf Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	8 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informatio	on		
Revision Date	:	03/06/2018				
Additional Info	ormation About	No data available.				
This Product:						
Company Poli	cy or Disclaimer	DISCLAIMER: This information	is believed to be ac	curate and represe	ents the best information	
		currently available to us. Howe express or implied, with respec use. Users should make their their particular purposes.	t to such information	, and we assume r	no liability resulting from its	
					Multi-region for	