

SAFETY DATA SHEET

Revision Date 08-May-2017

Revision Number 1

1. Identification

Product Name

AC46310000; AC463190010

Letrozole

CAS-No Synonyms

Cat No. :

112809-51-5 No information available

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity
Acute dermal toxicity
Acute Inhalation Toxicity - Dusts and Mists
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Reproductive Toxicity
Effects on or via lactation

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation May damage fertility. May damage the unborn child May cause harm to breast-fed children Harmful if inhaled Category 4 Category 4 Category 4 Category 2 Category 2 Category 1B



Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

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

Avoid contact during pregnancy/while nursing

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear eye/face protection

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Comp	ponent	CAS-No	Weight %		
Letrozole		112809-51-5	> 95		
4. First-aid measures					
General Advice	If symptom	ns persist, call a physician.			
Eye Contact	Rinse imm medical at	nediately with plenty of water, also under tention.	the eyelids, for at least 15 minutes. Get		
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Move to fre	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if			

	symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Impact	No information available		
Sensitivity to Static Discharge	No information available		

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) Nitrogen oxides (NOx) **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 2	Flammability 1	Instability 1	Physical hazards N/A		
	6. Accidental re	elease measures			
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment. Avoid dust formation.Environmental PrecautionsShould not be released into the environment.					
Methods for Containment and Cle Up	an Sweep up or vacuum up s suitable, closed container		ontainer for disposal. Keep in		
	7. Handling	and storage			
Handling		equipment. Ensure adequate ve ingestion and inhalation. Avoid	entilation. Do not get in eyes, on dust formation.		
Storage	Keep container tightly clo Keep refrigerated.	sed in a dry and well-ventilated	place. To maintain product quality:		
8. E	Exposure controls	/ personal protecti	on		
Exposure Guidelines		atain any hazardous materials we gion specific regulatory bodies.			

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Long sleeved clothing.		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

Physical StateSolidAppearanceWhiteOdorNo information availableOdor ThresholdNo information availablepHNo information availableMelting Point/Range185 °C / 365 °FBoiling Point/RangeNo information availableFlash PointNo information availableFlash PointNo information availableEvaporation RateNot applicableFlammability (solid,gas)No information availableFlammability or explosive limitsUpperUpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicableSpecific GravityNo information availableSolubilityInsoluble in water	9. Physica	I and chemical properties
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Solubility Insoluble in water		
•		
	,	
	Partition coefficient; n-octanol/water	No data available
Autoignition Temperature No information available	•	
Decomposition Temperature No information available		
Viscosity Not applicable		
Molecular Formula C17 H11 N5		
Molecular Weight 285.30	Molecular Weight	285.30

10. Stability and reactivity

Reactive Hazard None known, based on information available		
Stability heat sensitive.		
Conditions to Avoid	Incompatible products. Heat.	
Incompatible Materials	Oxidizing agents	
Hazardous Decomposition Produc	ts Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Informatio Component Inform Toxicologically Syr Products <u>Delayed and imme</u>	ation nergistic	No information ava		ort an	d long-term expo	sure_	
Irritation		Irritating to eyes ar	nd skin				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whet	ther ea	ch agency has list	ed any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	-1	ACGIH	OSHA	Mexico
Letrozole Mutagenic Effects	112809-51-5	Not listed No information ava	Not liste ailable	a	Not listed	Not listed	Not listed
Reproductive Effect	ets	May cause harm to	o the unborn	child.	May impair fertility		
Developmental Effe	ects	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	s,both acute and	No information available					
Endocrine Disrupto	or Information	No information ava	ailable				
Other Adverse Effe	ects	The toxicological p	oroperties ha	ve not	been fully investig	ated.	
		12. Ecolo	ogical ir	nfori	mation		
Ecotoxicity Do not empty into drains.							
Persistence and De	egradability	Persistence is unlil	kely				
Bioaccumulation/ Accumulation		No information ava	ailable.				
Mobility	bility Is not likely mobile in the environment due its low water solubility.						
	Component					log Pow	
Letrozole 2.22							
13. Disposal considerations							
Waste Disposal Me	ethods	Chemical waste ge hazardous waste. national hazardous	Chemical w	aste g	enerators must als	o consult local, reg	gional, and
		14. Tran	isport ir	nforr	nation		
DOT TDG		Not regulated Not regulated					
IATA		Not regulated					
IMDG/IMO		Not regulated					

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable			
SARA 313	Not applicable			
SARA 311/312 Hazard Categories	See section 2 for more information			
CWA (Clean Water Act)	Not applicable			
Clean Air Act	Not applicable			
OSHA Occupational Safety and Health Administration Not applicable				
CERCLA	Not applicable			
California Proposition 65	This product does not contain any Proposition 65 chemicals			
U.S. State Right-to-Know Regulations	Not applicable			
U.S. Department of Transportation				
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
U.S. Department of Homeland Security This product does not contain any DHS chemicals.				
Other International Regulations				
Mexico - Grade	No information available			
	16. Other information			
Prepared By	Regulatory Affairs			

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Revision Date	08-May-2017
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Revision Summary	Not applicable.

Disclaimer

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End of SDS