

SAFETY DATA SHEET

Creation Date 16-May-2017

Revision Date 24-Dec-2021

Revision Number 3

1. Identification

Product Name

AC463250000; AC463250010

Cat No. :

Synonyms

CAS No

171599-83-0

Laboratory chemicals.

Sildenafil citrate

Recommended Use Uses advised against No information available

Details of the supplier of the safety data sheet

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

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Food, drug, pesticide or biocidal product use.

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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS). Category 2 Category 2 Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation Causes damage to organs



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

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

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Response

IF exposed: Call a POISON CENTER or doctor/physician

Inhalation

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

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

Skin

IF ON SKIN: Wash with plenty of soap and water

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

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sildenafil citrate	171599-83-0	> 95

4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Remove 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 effects Notes to Physician	None reasonably foreseeable. Treat symptomatically			
	5. Fire-fighting measures			
Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.			
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature Explosion Limits	No information available			
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge				

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). Sulfur oxides. **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.

<u>NFPA</u>	Health 2	Flammability 1	Instability 0	Physical hazards N/A			
		6. Accidental re	lease measures				
Personal P	recautions	Ensure adequate ventilatio formation.	n. Use personal protective equ	ipment as required. Avoid dust			
Environme	ental Precautions	Should not be released into	o the environment.				
Methods fo Up	or Containment and Cle	ean Sweep up and shovel into containers for disposal.	suitable containers for disposa	. Keep in suitable, closed			
		7. Handling	and storage				
Handling				ure adequate ventilation. Do not halation. Avoid dust formation.			
Storage.		Keep container tightly closed in a dry and well-ventilated place. To maintain product qua Keep refrigerated. Incompatible Materials. Strong oxidizing agents.					
	8. I	Exposure controls	/ personal protection	on			
Exposure (<u>Guidelines</u>		ain any hazardous materials w gion specific regulatory bodies.	ith occupational exposure			
Engineerin	g Measures	Ensure that eyewash static	ons and safety showers are clo	se 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	Wear appropriate protective gloves and clothing to prevent skin exposure.
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.

9. Physical and chemical properties	
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Physical State	Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	182 - 196 °C / 359.6 - 384.8 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Slightly soluble 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	C22 H30 N6 O4 S . C6 H8 O7
Molecular Weight	666.70

10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	No information available.			
Conditions to Avoid	Incompatible products.			
Incompatible Materials	Strong oxidizing agents			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			

Acute Toxicity

Product Information

Component Information								
Component	LD50 Oral		LD50 Dermal	LC50	Inhalation			
Sildenafil citrate	300 mg/kg (Rat)							
Toxicologically Synergistic	No information av	No information available						
Products								
Delayed and immediate effects a	as well as chronic effe	ects from short ar	d lona-term expo	osure				
_								
Irritation	Irritating to eyes, r	respiratory system	and skin					
Sensitization	No information av	ailable						
Carcinogenicity	The table below in	The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Sildenafil citrate 171599-83	-0 Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects	No information av	ailable						
Reproductive Effects	No information av	ailable.						
Developmental Effects	No information av	ailable.						
Teratogenicity	No information av	ailable.						
STOT - single exposure STOT - repeated exposure	Central nervous s None known	ystem (CNS)						
Aspiration hazard No information available								
Symptoms / effects,both acute and No information available delayed								
Endocrine Disruptor Information No information available								
Other Adverse Effects	The toxicological	The toxicological properties have not been fully investigated.						
12. Ecological information								
Ecotoxicity Do not empty into drains.								
Persistence and Degradability	May persist based	d on information av	ailable.					
Bioaccumulation/Accumulation	No information av	ailable.						
Mobility Is not likely mobile in the environment due its low water solubility.								
13. Disposal considerations								
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.							
		nsport infor	mation					
DOT Not regulated								
TDG	Not regulated							
IATA	Not regulated							
IMDG/IMO	Not regulated							
		laton	mation					
15. Regulatory information								

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sildenafil citrate	171599-83-0	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

NOT LISTOU

Not applicable

International Inventories

TSCA 12(b) - Notices of Export

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sildenafil citrate	171599-83-0	-	-	-	-	-		-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

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			
Authorisation/Restrictions according to EU REACH				

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sildenafil citrate	171599-83-0	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sildenafil citrate	171599-83-0	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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Disclaimer

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End of SDS