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Safety Data Sheet acc. to OSHA HCS

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Trade name: <u>Mestranol</u> Synonym 3-methoxy-19-norpregna- EE 3-ME Ethynyl Estradiol 3-methyl NSC 84032 SC-475 Δ-MVE		n-20-yn-17α-ol
Article number: 23822 CAS Number: 72-33-3 EC number: 200-777-8 Application of the subst This product is for researc		iixture or human or veterinary diagnostic or therapeutic use.
Details of the supplier of Manufacturer/Supplier: Cayman Chemical Co.	f the safety o	data sheet
1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA		
Ann Arbor, MI 48108 USA Information department:	u mber: nes: +1 (734) 00	
Ann Arbor, MI 48108 USA Information department: Emergency telephone no During normal opening tim US/CANADA: 800-424-93	u mber: nes: +1 (734) 00 3-741-5970	
Ann Arbor, MI 48108 USA Information department: Emergency telephone no During normal opening tim US/CANADA: 800-424-93 Outside US/CANADA: 703	umber: nes: +1 (734) 00 3-741-5970 ion	971-3335
Ann Arbor, MI 48108 USA Information department: Emergency telephone no During normal opening tim US/CANADA: 800-424-93 Outside US/CANADA: 703	umber: nes: +1 (734) 00 3-741-5970 ion stance or m	971-3335
Ann Arbor, MI 48108 USA Information department: Emergency telephone no During normal opening tim US/CANADA: 800-424-93 Outside US/CANADA: 703 Hazard(s) identificat	umber: hes: +1 (734) 00 3-741-5970 ion stance or m azard H351	971-3335
Ann Arbor, MI 48108 USA Information department: Emergency telephone no During normal opening tim US/CANADA: 800-424-93 Outside US/CANADA: 703 Hazard(s) identificat Classification of the sub GHS08 Health h Carcinogenicity 2	umber: hes: +1 (734) 00 3-741-5970 ion stance or m azard H351	971-3335 hixture Suspected of causing cancer. 62 May damage fertility or the unborn child. May cause harm

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Acute Toxicity - I	Dermal 4	H312	Harmful in contac	t with skin.	
Acute Toxicity - I	nhalation 4	H332	Harmful if inhaled	l.	
Skin Irritation 2		H315	Causes skin irrita	tion.	
Eye Irritation 2A		H319	Causes serious e	ve irritation.	
Label elements GHS label elem The substance is Hazard pictogra	ents s classified a	and labeled	according to the G	lobally Harmonized	System (GHS).
GHS07 GHS0 Signal word Da					
Hazard stateme	nts		1. 1		
		if swallowed	d, in contact with sk	in or it innaled.	
H315 H319		skin imialioi serious eye			
H351		ed of causir			
H360-H362				May cause harm	to breast-fed children.
Precautionary s		age renully		. May cause halli	
Precautionary s		nacial instru	ctions before use.		
P201 P202				e have been read a	and understood
P260	Do not handle until all safety precautions have been read and understood. Do not breathe dusts or mists.				
P263			pregnancy/while n	ursina	
P264			er handling.	a sing.	
P270			smoke when using	this product	
P271			in a well-ventilated		
P280				ng/eye protection/fa	ace protection
P301+P312				r if you feel unwell.	
P330	Rinse mo			r il you leel ultwell.	
P302+P352			plenty of water.		
P304+P340				ir and keen comfor	table for breathing.
	38 If in eyes	: Rinse cau	tiously with water fo	or several minutes.	Remove contact lenses
P308+P313			do. Continue rinsin rned: Get medical :		
P321			ee on this label).		
P362+P364			ed clothing and was		
P332+P313			s: Get medical adv		
P337+P313			ts: Get medical ad		
P405	Store loc				
P501			container in accord	lance with local/reg	ional/national/internatio
	regulatio			ance with local/leg	
Classification s					
NFPA ratings (s					
	alth = 3				
Fire	alth = 3 e = 0 activity = 0				



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· HMIS-ratings (scale 0 - 4)



Health = *2 Fire = 0 Reactivity = 0

· Other hazards

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 72-33-3 Mestranol
- Identification number(s)
- · EC number: 200-777-8

4 First-aid measures

- · Description of first aid measures
- General information:
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Solid
Color:	Not determined.
Odor:	Characteristic
Structural Formula	C21H26O2
Molecular Weight	310.4 g/mol
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.

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· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	Acetonitrile: 1 mg/ml; Ethanol: 1 mg/ml; Methanol: 1 mg/ml
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide

11 Toxicological information

- RTECS Number RC8960000
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50	>10 g/kg (rat)
	- 3- 5 ()

Intraperitoneal LD50 >3,200 mg/kg (mouse)

Subcutaneous LD50 2,500 mg/kg (mouse)

Intraperitoneal LD50 >3 g/kg (rat)

Subcutaneous LD50 >5 g/kg (rat)

Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) K
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number · DOT, IMDG, IATA	not regulated
 UN proper shipping name DOT, IMDG, IATA 	not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	not regulated
 Packing group DOT, IMDG, IATA 	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. 	
· UN "Model Regulation":	not regulated

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

· Department issuing SDS: Environment protection department.

- · Contact: -
- Date of preparation / last revision 07/10/2024 / -Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Acute Toxicity - Oral 4: Acute toxicity – Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Carcinogenicity 2: Carcinogenicity - Category 2 Toxic to Reproduction 1A: Reproductive toxicity - Category 1A * * Data compared to the previous version altered.