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Safety Data Sheet acc. to OSHA HCS

Printing date 09/12/2024

Revision date 09/12/2024

• Product identifier		
· Trade name: <u>Ethister</u> · Synonym (17α)-hydro		n-20-yn-3-one
 Article number: 2289 CAS Number: 434-03-7 EC number: 207-096-5 Application of the su This product is for rese 	bstance / the	e mixture ot for human or veterinary diagnostic or therapeutic use.
• Details of the supplie • Manufacturer/Supplie Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA	ər:	ty data sheet
• Emergency telephone During normal opening US/CANADA: 800-424 Outside US/CANADA:	g times: +1 (7 -9300	
2 Hazard(s) identifi	cation	
2 Hazard(s) identifie		r mixture
	substance o	r mixture
Classification of the solution	substance o th hazard H351	r mixture Suspected of causing cancer. 362 May damage fertility or the unborn child. May cause harm breast-fed children.
Classification of the solution	substance o th hazard H351 1A H360-H3	Suspected of causing cancer. 62 May damage fertility or the unborn child. May cause harm
Classification of the solution	substance o th hazard H351 1A H360-H3	Suspected of causing cancer. 62 May damage fertility or the unborn child. May cause harm t

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		(Contd. from page 1
Hazard	pictograms	
	AV.	
GHS08	GHS09	
	vord Danger	
	statements	
H351	Suspected of causing cancer.	aget fod shildron
H410	362 May damage fertility or the unborn child. May cause harm to bro Very toxic to aquatic life with long lasting effects.	east-red children.
	ionary statements	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and u	Inderstood
P260	Do not breathe dusts or mists.	
P263	Avoid contact during pregnancy/while nursing.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face	protection.
P308+P3	313 IF exposed or concerned: Get medical advice/attention.	
P391	Collect spillage.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/reg	gional/national/internationa
Cleasifi	regulations.	
	cation system: itings (scale 0 - 4)	
	Health = 0	
	Fire = 0	
	Reactivity = 0	
HMIS-ra	tings (scale 0 - 4)	
HEALTH	*0 Health = *0	
FIRE	\circ Fire = 0	
REACTIVIT		
• Other ha		
	of PBT and vPvB assessment	
	ot applicable.	
· VPVB: N	lot applicable.	
B Compo	osition/information on ingredients	
	al characterization: Substances	
	. Description	
	7 Ethisterone eation number(s)	
nuentinc		

- Identification number(s) EC number: 207-096-5

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4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult 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: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. 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.
- 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

No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

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- · 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: None.
- 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. Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- Protection of hands:

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: Not required.

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Solid	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C21H28O2	
Molecular Weight	312.5 g/mol	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	

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· Flash point:	Not applicable.
· Flammability:	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.
· 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	ter): 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 TU5570250
- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral TDLO 21 ml/kg (woman)

Subcutaneous TDLO 10 mg/kg (rat)

Primary irritant effect:

- on the skin: No irritant effect.
- · on the eye: No irritating effect.

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- 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) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

- 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.

UN-Number	
DOT, IMDG, IATA	UN3077
UN proper shipping name	
DOT, IATA	Environmentally hazardous substance, solid, n.o. (Ethisterone)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCI SOLID, N.O.S. (Ethisterone)

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Transport hazard class(es)	
DOT	
Class Label	9 Miscellaneous dangerous substances and articles 9
IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group DOT, IMDG, IATA	Ш
Environmental hazards: Marine pollutant: Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances an articles
Hazard identification number (Kemler cod EMS Number: Stowage Category Stowage Code	
Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code	f Not applicable.
Transport/Additional information:	
DOT Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
IATA Remarks:	When sold in quantities of less than or equal to 1 mL or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.

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· UN "Model Regulation":

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ETHISTERONE), 9, III

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 not 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 not 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 09/12/2024 / -
- 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
- Carcinogenicity 2: Carcinogenicity Category 2

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Toxic to Reproduction 1A: Reproductive toxicity – Category 1A	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* Data compared to the previous version altered.	