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· Product identifier		
<sup>.</sup> Trade name: <u>Trilostane</u>		
· Synonym		
4α,5α-epoxy-3,17β-dihydroxy-andro Desopan	osi-z-ene-z-carbonithe	
Modrefen		
Vetoryl WIN 24,540		
· CAS Number:		
13647-35-3		
· Other means of identification		
• Article number: 14164 • EC number:		
237-133-0		
• Application of the substance / the		
•	lot for human or veterinary diagnostic or therapeutic use.	
<ul> <li>Details of the supplier of the safe</li> <li>Manufacturer/Supplier:</li> </ul>	ety data sneet	
Cayman Chemical Co.		
1180 E. Ellsworth Rd. Ann Arbor, MI 48108		
USA		
USA	safety department	
USA Information department: Product Emergency telephone number:		
USA Information department: Product Emergency telephone number: During normal opening times: +1 (7		
USA Information department: Product Emergency telephone number:	34) 971-3335	
USA Information department: Product Emergency telephone number: During normal opening times: +1 (7 US/CANADA: 800-424-9300	34) 971-3335	
USA Information department: Product Emergency telephone number: During normal opening times: +1 (7 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-597	34) 971-3335	
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Specific target or	(Contd. from page 1) gan toxicity (single exposure) 3 H335 May cause respiratory irritation.
 · Label elements	
	classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictogra	ms
$\wedge \wedge$	
GHS07 GHS08	
· Signal word War	rning
· Hazard statemer	
H315 Causes skir	n irritation.
	ious eye irritation.
	of damaging fertility or the unborn child.
	respiratory irritation.
<ul> <li>Precautionary st</li> </ul>	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271 P280	Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection/hearing
F200	protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Information port	aining to particular dangers for man and environment:
· Classification sy	
· NFPA ratings (so	
▲ · · ·	-
	th = 2
Fire Rea	
	ctivity = 0
· HMIS-ratings (so	cale 0 - 4)
HEALTH 2 Hea	alth = 2
	e = 0
	activity = 0
	-
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- · Other hazards
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.12000

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### **3 Composition/information on ingredients**

- · Chemical characterization: Substances
- CAS No. Description 13647-35-3 Trilostane
- · Identification number(s)
- EC number: 237-133-0

### **4 First-aid measures**

- · Description of first aid measures
- After inhalation: 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: If symptoms persist consult 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

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- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.
- **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.

## 7 Handling and storage

- · 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.
- · 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

- 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
- Appropriate engineering controls No further data; see section 7.
- 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.

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

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#### 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

## 9 Physical and chemical properties

<ul> <li>Information on basic physical and chemic</li> <li>General Information</li> </ul>	al properties
· Physical state	Fluid
· Color:	Not determined.
· Odor:	Characteristic
· Structural Formula	C20H27NO3
Molecular Weight	329.4 g/mol
· Storage Buffer	529.4 g/mol
· Odor threshold:	Not determined.
	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flammability:	Not applicable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
SOLUBILITY	DMF: 20 mg/ml; DMF:PBS(pH 7.2)(1:1): 0.5 mg/ml; DMSO: 16 mg/ml
· Dynamic:	Not determined.
Solubility in / Miscibility with	
· Water:	Not determined.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	Not determined.
· Vapor pressure:	Not determined.
Vapor pressure:	
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not determined.
<ul> <li>Particle characteristics</li> </ul>	Not applicable.
• Other information	
· Appearance:	
· Form:	Solid
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- Important information on protection of health and environment, and on safety.
- Ignition temperature:
- Danger of explosion:
- Change in condition
- · Evaporation rate

Not determined. Product does not present an explosion hazard.

Not determined.

### **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, nitrogen oxides

### **11 Toxicological information**

- · RTECS Number BV8044200
- · Information on toxicological effects

#### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

Oral	TDLO	48 ml/kg (man)
	LD50	>15 mg/kg (mouse) >15 g/kg (rat)
	LD50	>15 g/kg (rat)
	Intraperitoneal LD50	1,055 mg/kg (rat)
	Subcutaneous LD50	7,050 mg/kg (rat)

Subcutaneous LD50 >15 g/kg (mouse)

- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · 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.
- · Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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

### 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	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.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> <li>Not applicable.</li> </ul>	
Special precautions for user	Not applicable.
UN "Model Regulation":	not regulated

### **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.

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- 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 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 previous version 09/22/2022
- Date of preparation 09/25/2024
- · 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** Skin irritation 2: Skin corrosion/irritation - Category 2 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Reproductive toxicity 2: Reproductive toxicity - Category 2 Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3 \* \* Data compared to the previous version altered.