

Safety Data Sheet

acc. to OSHA HCS

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1 Identification · Product identifier Trade name: (-)-Propoxyphene (hydrochloride) · Synonym $[R-(R^*,S^*)]-\alpha-[2-(dimethylamino)-1-methylethyl]-\alpha-phenyl-propanoate (ester), benzeneethanol,$ monohydrochloride Levopropoxyphene I-Propoxyphene α -l-Propoxyphene · Article number: 22769 · CAS Number: 1596-70-9 · EC number: 216-484-3 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cavman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized System (GHS). · Label elements · GHS label elements None · Hazard pictograms None · Signal word None

- Hazard statements None
- Classification system:
- NFPA ratings (scale 0 4)

000 He Fir Re

Health = 0 Fire = 0 Reactivity = 0

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· HMIS-ratings (scale 0 - 4)



Health = 0
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
- 1596-70-9 (-)-Propoxyphene (hydrochloride)
- Identification number(s)
- EC number: 216-484-3

4 First-aid measures

- Description of first aid measures
- · General information: No special measures required.
- 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- **Reference to other sections** See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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 measures required.
- · 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: 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:

The usual precautionary measures for handling chemicals should be followed.

- 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.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance: Form:

Solid

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Color:	Not determined.		
Odor:	Characteristic		
Structural Formula	C22H29NO2 • HCI		
Molecular Weight	375.9 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:	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/water): Not determined.			
· Viscosity:			
Dynamic:	Not applicable.		
Kinematic:	Not applicable.		
SOLUBILITY	DMF: 30 mg/ml; DMSO: 30 mg/ml; Ethanol: 30 mg/ml; PBS (pH 7.2): 10 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:** No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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Acute toxicity:				
LD/LC50 values that are relevant for classification: Oral LD50 182 mg/kg (mouse)				
Oral	LD50 Intraperitoneal LD50	182 mg/kg (mouse) 114 mg/kg (mouse)		
Sens Add Whe acco The Carc	ording to our experience substance is not subje cinogenic categories	ng effects known. Iformation: Iccording to specifications, the product does not have any harmful effect and the information provided to us.		
OSH	IÀ-Ca (Occupational blogical informational			
Ecc Cost Toxi Aqu Pers Beh	IA-Ca (Occupational blogical informational icity atic toxicity: No furth- sistence and degrada avior in environment	Safety & Health Administration) Substance is not listed.		
OSH Eco Toxi Aqu Pers Beh Bioa Mob	IA-Ca (Occupational blogical informational icity atic toxicity: No furth- sistence and degrada avior in environment accumulative potentia	 Safety & Health Administration) Substance is not listed. In relevant information available. Solity No further relevant information available. I systems: I No further relevant information available. relevant information available. 		
Ecc Toxi Aqui Pers Behi Bioa Mob Add Gen Wate	A-Ca (Occupational blogical informational icity atic toxicity: No furthesistence and degrada avior in environment accumulative potention ility in soil No further itional ecological info eral notes: er hazard class 1 (Self not allow undiluted pro-	 Safety & Health Administration) Substance is not listed. In relevant information available. Solity No further relevant information available. I systems: I No further relevant information available. relevant information available. 		
• OSH • Eco • Toxi • Aqua • Pers • Beha • Bioa • Beha • Bioa • Boa • Mob • Add • Oo r • Syste • Res • PBT • vPvl	A-Ca (Occupational blogical informational icity atic toxicity: No furth- sistence and degrada avior in environment accumulative potenti- bility in soil No further itional ecological info eral notes: er hazard class 1 (Self not allow undiluted pro- em. ults of PBT and vPvE : Not applicable. B: Not applicable.	Safety & Health Administration) Substance is not listed. In In relevant information available. Solution of the information available. Solution of the information available. I No further relevant information available. I no further		
• OSH • Eco • Toxi • Aqua • Pers • Beha • Bioa • Beha • Bioa • Boa • Mob • Add • Oo r • Syste • Res • PBT • vPvl	A-Ca (Occupational blogical informational icity atic toxicity: No furth- sistence and degrada avior in environment accumulative potenti- bility in soil No further itional ecological info eral notes: er hazard class 1 (Self not allow undiluted pro- em. ults of PBT and vPvE : Not applicable. B: Not applicable.	 Safety & Health Administration) Substance is not listed. n r relevant information available. bility No further relevant information available. I systems: I No further relevant information available. relevant information available. rmation: assessment): slightly hazardous for water duct or large quantities of it to reach ground water, water course or sewage 		

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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	x II of
MARPOL73/78 and the IBC Code	Not applicable.

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.

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Department issuing SDS: Environment protection department.	
Contact: -	
Date of preparation / last revision 09/03/2024 / -	
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	
* Data compared to the previous version altered.	