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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 15881

Product Name: Amitriptyline (hydrochloride)

Synonyms: 3-(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-ylidene)-N,N-dimethyl-1-propanamine,

monohydrochloride; Domical; Elavil; Endep; Saroten;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Oral, Category 4

Serious Eye Damage/Eye Irritation, Category 1

Toxic To Reproduction, Effects on or via lactation

Target Organ Systemic Toxicity (single exposure), Category 1

Aquatic Toxicity (Acute), Category 1

Aquatic Toxicity (Chronic), Category 1

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:









GHS Signal Word:

Danger

GHS Hazard Phrases:

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H362: May cause harm to breast-fed children.

H370: Causes damage to organs {CNS}.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.





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GHS Precaution Phrases:

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P201: Obtain special instructions before use.

P263: Avoid contact during pregnancy/while nursing.

P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.

P308+311: If exposed of concerned: Call a {POISON CENTER/Doctor/...}.

P273: Avoid release to the environment.

GHS Response Phrases:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310: Immediately call a {POISON CENTER/doctor/...}.

P308+313: IF exposed or concerned: Get medical attention/advice.

P321: Specific treatment {see ... on this label}.

P391: Collect spillage.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Causes damage to organs {CNS}.

Effects and Symptoms: Causes serious eye damage.

Harmful if swallowed.

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation.

May cause harm to breast-fed children.

Very toxic to aquatic life with long lasting effects.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
549-18-8 HO9450000	Amitriptyline hydrochloride	100.0 %	208-964-6 NA	Acute Tox.(O) 4: H302 Eye Damage 1: H318 Toxic Lactate: H362 TOST (SE) 1: H370 Aquatic (A) 1: H400 Aquatic (C) 1: H410



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Section 4. First Aid Measures

4.1 No data available. **Description of First Aid**

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion:

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

Flash Pt: No data.

LEL: No data. UEL: No data. **Explosive Limits:**

Autoignition Pt: No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or 5.3

equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 **Protective Precautions,** Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). **Emergency Procedures:**

6.2 Take steps to avoid release into the environment, if safe to do so. **Environmental**

Precautions:

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure. in Handling:

7.2 Precautions To Be Taken Keep container tightly closed.

> in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 **Exposure Parameters:**

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
549-18-8	Amitriptyline hydrochloride	No data.	No data.	No data.

Multi-region format





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Cayman						
CAS a	#	Partial Chemica	al Name	OSHA TWA	ACGIH TWA	Other Limits
549)-18-8	Amitriptyline hyd	Irochloride	No data.	No data.	No data.
8.2	Exposu	re Controls:			•	•
8.2.1	.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn (Ventilation etc.):			s to control airborne		
922	Dorson	Personal protection equipment:				

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

NIOSH approved respirator, as conditions warrant. **Respiratory Equipment**

(Specify Type):

Work/Hygienic/Maintenan Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. ce Practices:

Wash thoroughly after handling.

No data available.

	Section	in 9. Physical and Chemical Properties	
9.1	Information on Basic Physical and Chemical Properties		
	Physical States:	[] Gas [] Liquid [X] Solid	
	Appearance and Odor:	A crystalline solid	
	Melting Point:	No data.	
	Boiling Point:	No data.	
	Flash Pt:	No data.	
	Evaporation Rate:	No data.	
	Explosive Limits:	LEL: No data. UEL: No data.	
	Vapor Pressure (vs. Air or mm	No data.	
	Hg):		
	Vapor Density (vs. Air = 1):	No data.	
	Specific Gravity (Water = 1):	No data.	
	Solubility in Water:	No data.	
	Solubility Notes:	~0.5 mg/ml in PBS (pH 7.2); ~25 mg/ml in EtOH, DMSO, & DMF;	
	Autoignition Pt:	No data.	
9.2	Other Information		
	Percent Volatile:	No data.	
	Molecular Formula & Weight:	C20H23N • HCI 313.9	
		Section 40 Ctability and Department	

		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
	Polymerization:	Will occur [] Will not occur [X]
10.4	Conditions To Avoid:	No data available.
10.5	Incompatibility - Materia	als strong oxidizing agents
	To Avoid:	

10.6 Hazardous carbon dioxide carbon monoxide **Decomposition Or** hydrogen chloride **Byproducts:** nitrogen oxides

Multi-region format





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Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects: Amitriptyline (hydrochloride) - Toxicity Data: Oral TDLO (child): 4167 µg/kg; Oral TDLO (man): 714

μg/kg/1D (intermittent); Oral TDLO (woman): 10 mg/kg; Oral LD50 (rat): 240 mg/kg; Oral LD50 (mouse): 140 mg/kg; Subcutaneous LD50 (rat): 385 mg/kg; Subcutaneous LD50 (mouse): 80

mg/kg;

Chronic Toxicological

Amitriptyline (hydrochloride) - Investigated as a mutagen and reproductive effector.

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Amitriptyline (hydrochloride) RTECS Number: HO9450000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 Bioaccumulative No data available.

Potential:

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class: UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

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CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
549-18-8	Amitriptyline hydrochloride	No	No	No



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CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
549-18-8	Amitriptyline hydrochloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.

Section 16. Other Information

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Additional Information About No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.