

Medicines & Healthcare products Regulatory Agency

British Pharmacopoeia

Quality standards

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-May-2025

Revision Number 1.01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Pro	duct	identifier	
-				

CAT 081 Product Code(s)

Product Name chlorphenamine maleate

Form Not applicable

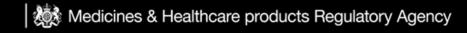
REACH registration number

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

Substance Name	Chlorphenamine Maleate	
EC No (EU Index No)	204-037-5	
CAS No.	113-92-8	
Pure substance/mixture	Substance	
Formula	C16 H19 CI N2.C4 H4 O4	
Molecular weight	390.86	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Recommended use	Laboratory use	

No information available Uses advised against

1.3. Details of the supplier of the safety data sheet





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

Supplier

British Pharmacopoeia Commission MHRA 10 South Colonnade Canary Wharf London E14 4PU United Kingdom

Tel : +44 (0)20 3080 6561 eMail: bpcrs@mhra.gov.uk

For further information, please contact

E-mail address

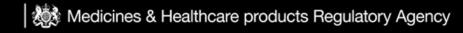
bpcrs@mhra.gov.uk

1.4. Emergency telephone number

Emergency Telephone

+44 (0)20 3080 6561 (Monday - Friday: 8am - 5pm)

Emergency Telephone - §45 - (EC)1	272/2008
Europe	112
Austria	No information available
Bulgaria	
Croatia	
Cyprus	
Czech Republic	
Denmark	
France	
Hungary	
Ireland	
Italy	
Lithuania	
Luxembourg	
Netherlands	
Norway	
Portugal	
Romania	
Slovakia	
Slovenia	
Spain	





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

Sweden	
Switzerland	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity - Oral	Category 3 - (H301)
Eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Category 3 Target organ effects: Narcotic effects.	

2.2. Label elements

204-037-5 Contains Chlorpheniramine Maleate



Signal word Danger

Hazard statements

H301 - Toxic if swallowed.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

Precautionary Statements - EU (§28, 1272/2008)

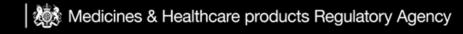
P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye and face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable P337 + P313 - If eye irritation persists: Get medical advice/attention





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

2.3. Other hazards

 No information available.
 PBT & vPvB
 This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

 Endocrine Disruptor Information
 This product does not contain any known or suspected endocrine disruptors.

 Chemical name
 EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation
 EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances

 Chlorpheniramine Maleate

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	concentration		M-Factor (long-ter m)	Notes
Chlorpheniramine Maleate 113-92-8	100	-	204-037-5	Acute Tox. 3 (H301) Eye Irrit. 2 (H319) STOT SE 3 (H336)	-	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Chlorpheniramine Maleate 113-92-8	118	No data available	No data available	No data available	No data available





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

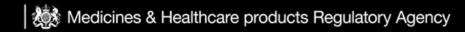
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
4.2. Most important symptoms and Symptoms	<u>effects, both acute and delayed</u> May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Effects of Exposure	No information available.
4.3. Indication of any immediate me	edical attention and special treatment needed
Note to doctors	Treat symptomatically.

SECTION 5: Firefighting measures





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

5.1. Extinguishing media

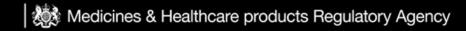
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	No information available.
5.3. Advice for firefighters	
Special protective equipment and	Firefighters should wear self contained breathing apparatus and full firefighting turnout gear

Special protective equipment and
precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
For emergency responders	Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
6.3. Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

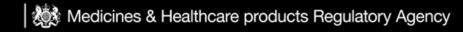
7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
Storage class (TRGS 510)	LGK 6.1C.
7.3. Specific end use(s)	
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

Derived No Effect Level (DNEL) - Workers No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protectionAvoid contact with eyes. Wear safety glasses with side shields (or goggles). If splashes are
likely to occur, wear safety glasses with side-shields.

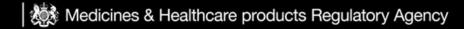
Hand protectionThe protective gloves to be used must comply with the specifications of EC Directive
89/686/EEC and the related standard EN374. Wear suitable gloves.

Gloves			
Duration of contact	Glove thickness 0.11 mm	Break through time 480 minutes	PPE - Glove material Wear protective nitrile rubber gloves
Skin and body protection	Wear suitable protective cloth	hing.	
Respiratory protection		eeded under normal use condit rienced, ventilation and evacua	
General hygiene considerations		or clothing. Do not eat, drink o breaks and after work. Wear s	
Environmental exposure controls	Do not allow into any sewer,	on the ground or into any body	of water.

SECTION 9: Physical and chemical properties

 9.1. Information on basic physical and chemical properties

 Appearance
 Solid





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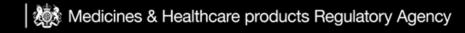
Revision Number 1.01

CAT 081 - chlorphenamine maleate

Physical state Colour Odour Odour threshold	Solid white, to, off-white No information available No information available	
<u>Property</u> Melting point / freezing point Initial boiling point and boiling rang Flammability Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive	Values 130 - 135 °C eNo data available No data available No data available No data available	Remarks • Method None known None known None known None known
limits Flash point Autoignition temperature Decomposition temperature SADT (°C) pH pH (as aqueous solution)	No data available No data available No data available No data available No data available	None known None known None known None known None known None known
Kinematic viscosity Dynamic viscosity Water solubility Solubility(ies) Partition coefficient Vapour pressure	No data available No data available Slightly soluble Methanol No data available No data available	None known None known None known None known None known
Relative density Bulk density Liquid Density Relative vapour density Particle characteristics	No data available No data available No data available No data available	None known
Particle Size Particle Size Distribution <u>9.2. Other information</u> Molecular formula Molecular weight	No information available No information available C16 H19 Cl N2.C4 H4 O4 390.86	

9.2.1. Information with regards to physical hazard classes No information available

9.2.2. Other safety characteristics No information available





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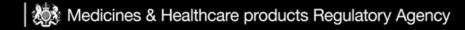
CAT 081 - chlorphenamine maleate

SECTION 10: Stability and	reactivity
10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reacti	ons
Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	
Conditions to avoid	None known based on information supplied.
10.5. Incompatible materials	
Incompatible materials	None known based on information supplied.
10.6. Hazardous decomposition products	
Hazardous decomposition products None known based on information supplied.	

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.





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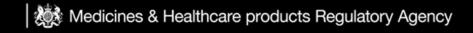
CAT 081 - chlorphenamine maleate

Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Toxic if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristicsSymptomsMay cause redness and tearing of the eyes. Inhalation of high vapour concentrations may		

May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Acute toxicity Toxic if swallowed. Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorpheniramine Maleate	= 118 - 264 mg/kg (Rat)	-	-
Skin corrosion/irritation	Based on available data, the cl	assification criteria are not met	
Serious eye damage/eye irritation	Classification based on data av	vailable for ingredients. Causes	serious eye irritation.
Respiratory or skin sensitisation	Based on available data, the cl	assification criteria are not met	
Germ cell mutagenicity	Based on available data, the cl	assification criteria are not met	
Carcinogenicity	Based on available data, the cl	assification criteria are not met	
Reproductive toxicity	Based on available data, the cl	assification criteria are not met	
STOT - single exposure	May cause drowsiness or dizzi	ness.	





SAFETY DATA SHEET

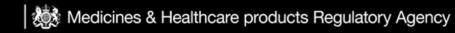
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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

STOT - repeated exposure	Based on available data, the classification criteria are not met.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
11.2. Information on other hazards	_	
11.2.1. Endocrine disrupting proper Endocrine disrupting properties	r <u>ties</u> Based on available data, the classification criteria are not met.	
11.2.2. Other information Other adverse effects	No information available.	
SECTION 12: Ecological int	formation	
<u>12.1. Toxicity</u> Ecotoxicity	The environmental impact of this product has not been fully investigated.	
12.2. Persistence and degradability Persistence and degradability	_ No information available.	
12.3. Bioaccumulative potential Bioaccumulation	No information available.	
<u>12.4. Mobility in soil</u> Mobility in soil	No information available.	
12.5. Results of PBT and vPvB asses		
PBT and vPvB assessment	Based on available data, the classification criteria are not met.	
12.6. Endocrine disrupting properties		
Endocrine disrupting properties	Based on available data, the classification criteria are not met.	
<u>12.7. Other adverse effects</u> Other adverse effects PMT or vPvM properties	No information available. Based on available data, the classification criteria are not met.	





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

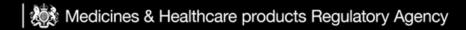
13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

|--|

 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions ERG Code 	UN2811 Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate), 6.1, III No A3, A5 6L
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special precautions for userSpecial ProvisionsEmS-No.14.7Maritime transport in bulkaccording to IMO instruments	UN2811 Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate), 6.1, III No 223, 274 F-A, S-A No information available
<u>RID</u> 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description	UN2811 Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate), 6.1, III





SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

14.5 Environmental hazards14.6 Special precautions for userSpecial ProvisionsClassification code	No 274, 614 T2
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code	UN2811 Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate), 6.1, III, (E) No 274, 614 T2 (E)
ADN 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazard 14.6 Special precautions for user Special Provisions Classification code Equipment Requirements	UN2811 Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Chlorpheniramine Maleate), 6.1, III No 274, 614, 802 T2 PP, EP

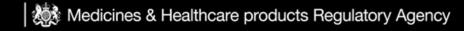
SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

 Germany
 Slightly hazardous to water (WGK 1)

 Chemical Prohibition Ordinance (ChemVerbotsV)
 This product is subject to requirements and restrictions regarding handling and delivery





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

TRGS 905

Not applicable

SwitzerlandOrdinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018Not applicableStorage of Hazardous MaterialSC 6.1WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20Class BMajor Accidents Ordinance SR 814.012Not applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 2024/590 Not applicable

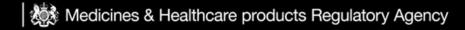
International Inventories TSCA

LGC, to the best of its ability, has confirmed that the chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021." Contact supplier for inventory compliance status Contact supplier for inventory compliance status Contact supplier for inventory compliance status

DSL/NDSL

ENCS

EINECS/ELINCS





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Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing Chemicals Inventory
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

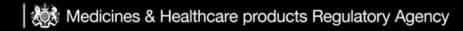
Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H301 - Toxic if swallowed

- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P330 Rinse mouth
- P405 Store locked up
- P501 Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable
- P280 Wear protective gloves, protective clothing, eye protection and face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P337 + P313 If eye irritation persists: Get medical advice/attention
- P261 Avoid breathing dust, fume, gas, mist, vapors and spray
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER or doctor if you feel unwell





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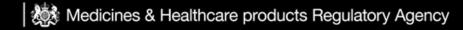
Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Legend ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships





SAFETY DATA SHEET

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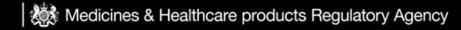
Revision date 01-May-2025

Revision Number 1.01

CAT 081 - chlorphenamine maleate

MDLPS	Ministry of Labour and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
РВТ	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
Sen+	Sensitiser
Sk*	Skin designation
**	Hazard Designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method





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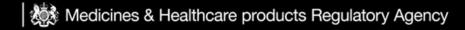
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Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - vapour	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	Calculation method	
Mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Chronic aquatic toxicity	Calculation method	
Acute aquatic toxicity	Calculation method	
Aspiration hazard	Calculation method	
Ozone	Calculation method	

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC) European Chemicals Agency (ECHA) (ECHA_API) Environmental Protection Agency Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization





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