

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 11-Mar-2025

Revision Number 1.02

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

1	.1	. P	rod	uct	iden	tifier	
-							

CAT 016 Product Code(s)

Product Name amitriptyline hydrochloride

Form Not applicable

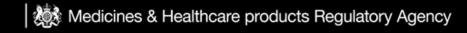
REACH registration number

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	Amitriptyline hydrochloride	
EC No (EU Index No)	208-964-6	
CAS No.	549-18-8	
Pure substance/mixture	Substance	
Formula	C20 H23 N · HCI	
Molecular weight	313.86	
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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CAT 016 - amitriptyline hydrochloride

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

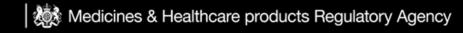
bpcrs@mhra.gov.uk

1.4. Emergency telephone number

Emergency Telephone

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

Emergency Telephone - §45 - (EC)1272/2008				
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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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)
Reproductive toxicity	Category 2 - (H361d)
Specific target organ toxicity (single exposure)	Category 1 - (H370)
Hazardous to the aquatic environment - acute	Category 1 - (H400)
Hazardous to the aquatic environment - chronic	Category 1 - (H410)

2.2. Label elements

208-964-6 Contains Amitriptyline hydrochloride

Signal word Danger

Hazard statements

H301 - Toxic if swallowed.

H361d - Suspected of damaging the unborn child.

- H370 Causes damage to organs.
- H410 Very toxic to aquatic life with long lasting effects.

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

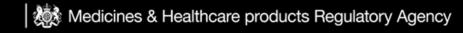
P260 - Do not breathe dust, fume, gas, mist, vapors and spray

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection and face protection

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

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor





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P391 - Collect spillage

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 suspe	cted endocrine disruptors.
Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Amitriptyline hydrochloride	-	-

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
Amitriptyline hydrochloride 549-18-8	100	_	208-964-6	Acute Tox. 3 (H301) Repr. 2 (H361d) STOT SE 1 (H370) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	_	-	_	-

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





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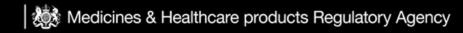
Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Amitriptyline hydrochloride 549-18-8	240	No data available	No data available	No data available	No data available

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. If symptoms persist, call a doctor.	
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a doctor.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.	
4.2. Most important symptoms and		
Symptoms	No information available.	
Effects of Exposure	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. Causes damage to organs.	
4.3. Indication of any immediate medical attention and special treatment needed		
Note to doctors	Treat symptomatically.	





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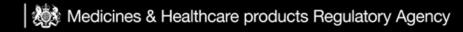
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.			
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.			
5.2. Special hazards arising from the substance or mixture				
Specific hazards arising from the No information available. chemical				
5.3. Advice for firefighters				

Special protective equipment and precautions for fire-fighters Firefighters 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.		
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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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

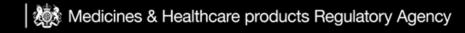
7.1. Precautions for safe handling

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. Remove contaminated clothing and shoes.
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. Wash hands before breaks and immediately after handling the product.
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. Store locked up.
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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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 protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

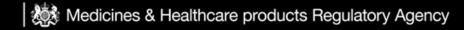
Hand protection

Wear protective butyl rubber gloves. The 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	Break through time	PPE - Glove material Wear protective butyl rubber gloves
	0.11 mm	480 minutes	Wear protective nitrile rubber gloves
Skin and body protection	Wear suitable protective clo	thing.	
Respiratory protection		needed under normal use condi erienced, ventilation and evacu	•
General hygiene considerations	product. Wash hands before	s or clothing. Do not eat, drink o breaks and after work. Wear s ore breaks and immediately afte	uitable gloves and eye/face
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





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Appearance Physical state Colour Odour Odour threshold	Solid Solid off-white No information available No information available	
Property_	Values_	Remarks • Method
Melting point / freezing point	195 - 199 °C	None known
Initial boiling point and boiling rang	eNo data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
SADT (°C)	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Slightly soluble 0.00971 g/l	@ 24 °C
Solubility(ies)	slightly soluble Methanol Chloroform	N I I
Partition coefficient	4.92	None known
Vapour pressure	No data available	None known
Relative density	No data available No data available	None known
Bulk density	No data available	
Liquid Density	No data available	None known
Relative vapour density Particle characteristics	NO data avaliable	None known
Particle Size	No information available	
Particle Size Distribution	No information available	
Falticle Size Distribution	No information available	
<u>9.2. Other information</u> Molecular formula Molecular weight	C20 H23 N · HCl 313.86	

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

9.2.2. Other safety characteristics





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No information available

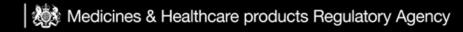
SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impact 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 pro	ducts
Hazardous decomposition products	None known based on information supplied.

SECTION 11: Toxicological information

<u>11.1.</u> 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.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.





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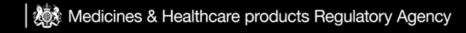
Ingestion

Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristicsSymptomsNo information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposureAcute toxicityToxic if swallowed.Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Amitriptyline hydrochloride	= 240 mg/kg (Rat)	_	-
Skin corrosion/irritation	Based on available data, the c	lassification criteria are not met	
Serious eye damage/eye irritation	Based on available data, the c	lassification criteria are not met	
Respiratory or skin sensitisation	Based on available data, the c	assification criteria are not met	
Germ cell mutagenicity	Based on available data, the c	lassification criteria are not met	
Carcinogenicity	Based on available data, the c	lassification criteria are not met	
Reproductive toxicity	Contains a known or suspecter for ingredients. Suspected of d		
STOT - single exposure	Causes damage to organs if su	vallowed.	
STOT - repeated exposure	Based on available data, the c	lassification criteria are not met	





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Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information Other adverse effects

No information available.

SECTION 12: Ecological information

12.1. Toxicity Ecotoxicity

Very toxic to aquatic life with long lasting effects.

	· · · · · · · · · · · · · · · · · · ·	g and a set of the set		
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Amitriptyline hydrochloride	-	LC50: = 0.25 mg/L (96h, Oncorhynchus mykiss (rainbow trout)) LC50: = 1.9 mg/L (96h, Danio rerio)		EC50: 4.82 mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradabilityNo information available.12.3. Bioaccumulative potentialBioaccumulation

Chemical name	Partition coefficient
Amitriptyline hydrochloride	4.92

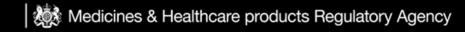
<u>12.4. Mobility in soil</u> Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

12.6. Endocrine disrupting properties





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Endocrine disrupting properties	Based on available data, the classification criteria are not met.
12.7. Other adverse effects	
Other adverse effects	No information available.
PMT or vPvM properties	Based on available data, the classification criteria are not met.
CECTION 42. Diseased as	

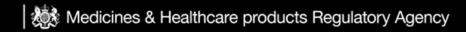
SECTION 13: Disposal considerations

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

 IATA 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. (Amitriptyline hydrochloride) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride), 6.1, III Yes A3, A5 6L
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group Description14.5Environmental hazards14.6Special precautions for user Special Provisions EmS-No.	UN2811 Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride), 6.1, III, Marine pollutant Yes 223, 274 F-A, S-A





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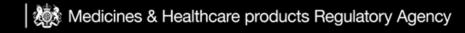
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14.7 Maritime transport in bulk according to IMO instruments	No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group Description14.5Environmental hazards	UN2811 Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride) 6.1 III UN2811, Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride), 6.1, III, Environmentally Hazardous Yes
14.6 Special precautions for user Special Provisions Classification code	274, 614 T2
ADR	UN2811
14.1 UN number or ID number	Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride)
14.2 UN proper shipping name	6.1
14.3 Transport hazard class(es)	III
14.4 Packing group	UN2811, Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride), 6.1, III, (E),
Description	Environmentally Hazardous
 14.5 Environmental hazards 14.6 Special precautions for user	Yes
Special Provisions	274, 614
Classification code	T2
Tunnel restriction code	(E)
ADN	UN2811
14.1 UN number or ID number	Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride)
14.2 UN proper shipping name	6.1
14.3 Transport hazard class(es)	III
14.4 Packing group	UN2811, Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride), 6.1, III, Environmentally
Description	Hazardous
 14.5 Environmental hazard 14.6 Special precautions for user	Yes
Special Provisions	274, 614, 802
Classification code	T2
Equipment Requirements	PP, EP

SECTION 15: Regulatory information





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

National regulations

Germany	
Water hazard class (WGK)	strongly hazardous to water (WGK 3)
Chemical Prohibition Ordinance	This product is subject to requirements and restrictions regarding handling and delivery
(ChemVerbotsV)	

TRGS 905

Not applicable

Switzerland

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable **Storage of Hazardous Material** SC 6.1 WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Class A Major Accidents Ordinance SR 814.012 Not 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

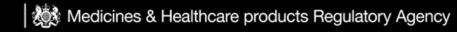
Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU) H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Ozone-depleting substances (ODS) regulation (EC) 2024/590





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Not applicable

International Inventories	
TSCA	LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
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

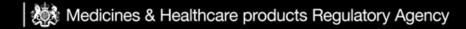
Chemical Safety Report

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





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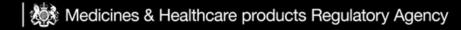
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H361d - Suspected of damaging the unborn child

- H370 Causes damage to organs
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- 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
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P280 Wear protective gloves, protective clothing, eye protection and face protection
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P260 Do not breathe dust, fume, gas, mist, vapors and spray
- P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor
- P273 Avoid release to the environment
- P391 Collect spillage

Legend

Legend		
ACGIH	American Conference of Governmental Industrial Hygienists	
AIDII	Italian Association of Industrial Hygienists	
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)	





SAFETY DATA SHEET

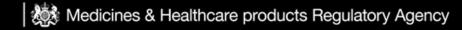
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EPA	Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships 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
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
PBT	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





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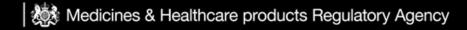
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	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			
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





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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 11-Mar-2025 **Revision date** This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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