

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 19-Jun-2025

Revision Number 2

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

1	.1	Ρ	roo	duct	iden	tifier

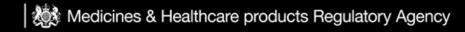
Product Code(s)	CAT 1076
Product Name	testosterone (CD)
Form	Not applicable

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	Testosterone				
EC No (EU Index No)	200-370-5				
CAS No.	58-22-0				
Pure substance/mixture	Substance				
Formula	C19 H28 O2				
Molecular weight	288.43				
1.2. Relevant identified uses of the substance or mixture and uses advised against					
Recommended use	This product is for research and development only				
Uses advised against	No information available				

1.3. Details of the supplier of the safety data sheet





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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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Category 4 - (H302)
Category 1B - (H350)
Category 1A - (H360FD)
Yes - (H362)
Category 1 - (H372)
Category 1
Category 1 - (H400)
Category 1 - (H410)
Category 1
PMT

Label elements

Contains Testosterone

200-370-5

Signal word Danger **Hazard statements** EUH380 - May cause endocrine disruption in humans. EUH430 - May cause endocrine disruption in the environment. EUH450 - Can cause long-lasting and diffuse contamination of water resources. H302 - Harmful if swallowed. H350 - May cause cancer. H360FD - May damage fertility. May damage the unborn child.



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Sweden	
Switzerland	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

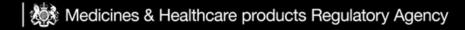
Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carcinogenicity	Category 1B - (H350)
Reproductive toxicity	Category 1A - (H360FD)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
Endocrine disruption for human health	Category 1
Hazardous to the aquatic environment - acute	Category 1 - (H400)
Hazardous to the aquatic environment - chronic	Category 1 - (H410)
Endocrine disruption for the environment	Category 1
PMT or vPvM properties	PMT



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H362 - May cause harm to breast-fed children.

H372 - Causes damage to organs through prolonged or repeated exposure.

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

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

P201 - Obtain special instructions before use

- P260 Do not breathe dust, fume, gas, mist, vapors and spray
- P263 Avoid contact during pregnancy and while nursing

P273 - Avoid release to the environment

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

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.

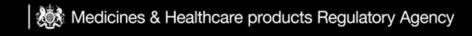
Endocrine Disruptor Information Contains a known or suspected endocrine disruptor.

	serialite a known of edepeeted endeeline dierapt	
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
Testosterone	-	-

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
Testosterone 58-22-0	100	-	200-370-5	Acute Tox. 4 (H302) Carc. 1B (H350) Repr. 1A (H360FD) Lact. (H362) STOT RE 1 (H372) Aquatic Acute 1		-	-	-





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	(H400) Aquatic Chronic 1 (H410) EUH380 EUH430 EUH450			
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Full text of H- and EUH-phrases: see section 16

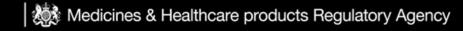
Acute Toxicity Estimate No information available

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. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.
<u>4.2. Most important symptoms and</u> Symptoms	effects, both acute and delayed No information available.
Effects of Exposure	May cause cancer. May cause adverse reproductive effects - such as birth defect,





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miscarriages, or infertility. Causes damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians

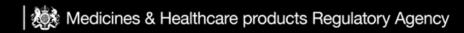
Treat symptomatically.

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 chemical	No information available.				
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.
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.





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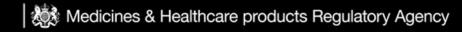
CAT 1076 - testosterone (CD)

6.3. Methods and material for containment and cleaning up		
Methods for containment	t 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 regulation		
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, including any incompatibilities		
Storage Conditions	Please refer to the manufacturer's certificate for specific storage and transport tempera 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 r of children. Store locked up.	
Storage class (TRGS 510)	Storage class 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





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8.1. Control parameters

Exposure Limits

Chemic	al name	European Union	Austria	Belgium	Bulgaria	Croatia
Testos	sterone	-		-	TWA: 0.005 mg/m ³	-
58-	22-0					

Biological occupational exposure limits

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

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

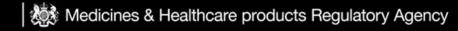
Derived No Effect Level (DNEL) - General Public No information available.

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	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves. Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
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.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.





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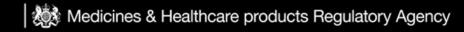
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical a			
Appearance	Solid		
Physical state	Solid		
Color	white		
Odor	No information available		
Odor threshold	No information available		
Property_	Values	Remarks • Method	
Melting point / freezing point	155 °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 limits	No data available		
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	No data available 2.41 mg/L	None known	
Solubility(ies)	Alcohol		
Partition coefficient	3.32	None known	
Vapor pressure	< 0.001 Pa	None known	
Relative density	1.17	None known	
Bulk density	No data available		
Liquid Density	No data available		
Relative vapor density	No data available	None known	
Particle characteristics			
Particle Size	No information available		
Particle Size Distribution	No information available		
9.2. Other information			
Molecular formula	C19 H28 O2		
Molecular weight	288.43		





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

9.2.2. Other safety characteristics

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 None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

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

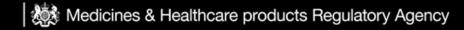
Hazardous decomposition products None known based on information supplied.

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.





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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.	
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).
Symptoms related to the physical, c	hemical and toxicological characteristics

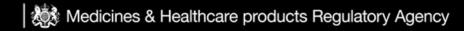
Symptoms No information available.

 Delayed and immediate effects as well as chronic effects from short and long-term exposure

 Acute toxicity
 Harmful if swallowed.

 Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Testosterone	> 500 mg/kg (Rat)	-	-
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Carcinogenicity	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.		
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. May cause harm to breast-fed children.		





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STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Based on available data, the classification criteria are not met.
11.2. Information on other hazards	_
11.2.1. Endocrine disrupting prope Endocrine disrupting properties	r <u>ties</u> May cause endocrine disruption in humans. Contains a known or suspected endocrine disruptor.

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. This product fulfills the classification criteria for toxicity (T).

	Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
Γ	Testosterone	ErC50 =0.7 mg/L (algae,	-	-	LC50: 5.6 mg/l (48h,
		72h)			crustacean)

12.2. Persistence and degradability

Persistence and degradability This product fulfills the classification criteria for persistence (P).

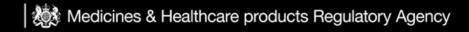
12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Partition coefficient
Testosterone	3.32

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

This product fulfills the classification criteria for mobility (M).





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 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

Endocrine disrupting properties May cause endocrine disruption in the environment.

12.7. Other adverse effects	
Other adverse effects	No information available.
PMT or vPvM properties	This product fulfills the classification criteria for persistent, mobile, and toxic (PMT). Can
	cause long-lasting and diffuse contamination of water resources.

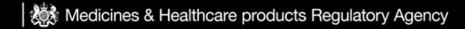
SECTION 13: Disposal considerations

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 	UN3077 Environmentally hazardous substance, solid, n.o.s. (Testosterone) 9 III UN3077, Environmentally hazardous substance, solid, n.o.s. (Testosterone), 9, III Yes A97, A158, A179, A197, A215 9L
IMDG 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group	UN3077 Environmentally hazardous substance, solid, n.o.s. (Testosterone) 9 III





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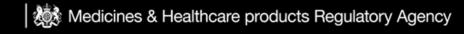
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Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Testosterone), 9, III, Marine pollutant
14.5 Environmental hazards 14.6 Special precautions for user	Yes
Special Provisions EmS-No. 14.7 Maritime transport in bulk according to IMO instruments	274, 335, 966, 967, 969 F-A, S-F No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special precautions for userSpecial ProvisionsClassification code	UN3077 Environmentally hazardous substance, solid, n.o.s. (Testosterone) 9 III UN3077, Environmentally hazardous substance, solid, n.o.s. (Testosterone), 9, III Yes 274, 335, 375, 601 M7
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	UN3077 Environmentally hazardous substance, solid, n.o.s. (Testosterone) 9 III UN3077, Environmentally hazardous substance, solid, n.o.s. (Testosterone), 9, III, (-) Yes 274, 335, 601, 375 M7 (-)
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	UN3077 Environmentally hazardous substance, solid, n.o.s. (Testosterone) 9 III UN3077, Environmentally hazardous substance, solid, n.o.s. (Testosterone), 9, III Yes 274, 335, 375, 601 M7 A, PP





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SECTION 15: Regulatory information

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

National regulations

Remarks

This substance is considered a controlled drug in some countries and needs to be treated according to the applicable regulations

Germany
Water hazard class (WGK)
Chemical Prohibition Ordinance
(ChemVerbotsV)

strongly hazardous to water (WGK 3) This product is subject to requirements and restrictions regarding handling and delivery

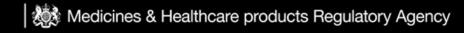
Chemical name	Chemical Prohibition Ordinance (ChemVerbotsV)
Testosterone 58-22-0	1.2
56-22-0	

TRGS 905

Chemical name	Carcinogenicity	Concentration limits (Classification thresholds)	Mutagenicity	Developmental effects	Fertility effects
Testosterone 58-22-0	Category 2				

SwitzerlandOrdinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018Not applicableStorage of Hazardous MaterialSC 11/13WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20Class BMajor Accidents Ordinance SR 814.012Not applicable

European Union





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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.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (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)

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

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

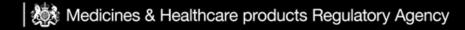
Not applicable

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."
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





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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

H302 - Harmful if swallowed

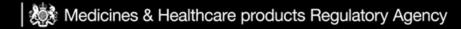
H350 - May cause cancer H360FD - May damage fertility. May damage the unborn child

H362 - May cause harm to breast-fed children

- H372 Causes damage to organs through prolonged or repeated exposure
- 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 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 Rinse mouth
- P260 Do not breathe dust, fume, gas, mist, vapors and spray
- P280 Wear protective gloves, protective clothing, eye protection and face protection
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P405 Store locked up
- P263 Avoid contact during pregnancy and while nursing
- P314 Get medical advice/attention if you feel unwell
- P201 Obtain special instructions before use
- P273 Avoid release to the environment
- P202 Do not handle until all safety precautions have been read and understood
- P501 Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable
- P391 Collect spillage

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	





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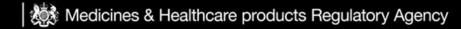
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	(Europe)	
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)	
AIIC	Australian Inventory of Industrial Chemicals	
ATE	Acute Toxicity Estimate	
ASTM	American Society for the Testing of Materials	
bar	Biological Reference Values for Chemical Compounds in the Work Area	
ЗАТ	Biological tolerance values for occupational exposure	
BEL	Biological exposure limits	
)W	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	
INCS	Existing and New Chemical Substances (Japan)	
EPA	Environmental Protection Agency	
EWC	European Waste Codes	
GHS	Globally Harmonized System	
ARC	International Agency for Research on Cancer	
ATA	International Air Transport Association	
BC	International Code for the Construction and Equipment of Ships carrying Dangerous	
20	Chemicals in Bulk	
CAO	International Civil Aviation Organization	
ECSC	Inventory of Existing Chemical Substances in China	
MDG	International Maritime Dangerous Goods	
MO	International Maritime Organization	
SO	International Organization for Standardization	
KECI	Korean Existing Chemicals Inventory	
_C50	Lethal Concentration to 50% of a test population	
_D50	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 Labor and Social Policy	
1.0.S.	Not Otherwise Specified	
NOAEC	No Observed Adverse Effect Concentration	
NOAEL	No Observed Adverse Effect Level	
NUALL	No Observable Effect Loading Rate	





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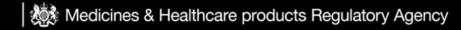
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NZIoC	New Zealand Inventory of Chemicals	
OECD	Organization for Economic Cooperation and Development	
OEL	Occupational exposure limits	
РВТ	Persistent, Bioaccumulative and Toxic substance	
PICCS	Philippines Inventory of Chemicals and Chemical Substances	
PMT	Persistent, Mobile and Toxic	
PPE	Personal protective equipment	
QSAR	Quantitative Structure Activity Relationship	
REACH	Registration, Evaluation, Authorization, 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+	Sensitizer	
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 - vapor	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	





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Respiratory sensitization	Calculation method
Skin sensitization	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)

Australia 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)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

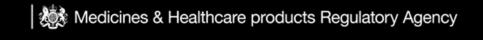
Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date

19-Jun-2025

Reason for revision Classification Gloves Material Physical and chemical properties Chemical Safety Report This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance





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