

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 10-Feb-2025

Revision Number 2

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

1	.1.	Pr	oduct	identifier	

Product Code(s)	CAT 665

fentanyl citrate (CD) **Product Name**

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

EC No (EU Index No)	213-588-0
CAS No.	990-73-8
Pure substance/mixture	Substance
Formula	C22 H28 N2 O . C6 H8 O7
Molecular weight	528.59

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

Recommended use Laboratory use

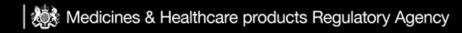
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

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





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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				
Sweden				
Switzerland				

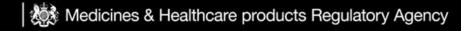
SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity - Oral

Category 2 - (H300)





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Acute toxicity - Dermal	Category 2 - (H310)
Acute toxicity - Inhalation (Dusts/Mists)	Category 2 - (H330)
Skin sensitisation	Category 1 - (H317)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Category 3 Target organ effects: Narcotic effects.	

2.2. Label elements

Contains Fentanyl citrate



Danger

Hazard statements

- H300 Fatal if swallowed.
- H310 Fatal in contact with skin.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.

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

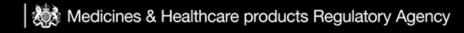
P260 - Do not breathe dust, fume, gas, mist, vapors and spray

P262 - Do not get in eyes, on skin, or on clothing

- P280 Wear protective gloves, protective clothing, eye protection and face protection
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P310 Immediately call a POISON CENTER or doctor
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards

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





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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
Fentanyl citrate	-	-

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
Fentanyl citrate 990-73-8	100	-	213-588-0	Acute Tox. 2 (H300) Acute Tox. 2 (H310) Acute Tox. 2 (H330) Skin Sens. 1 (H317) Repr. 2 (H361) STOT SE 3 (H336)		-	-	-

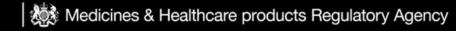
Full text of H- and EUH-phrases: see section 16

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		Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Fentanyl citrate 990-73-8	18	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).





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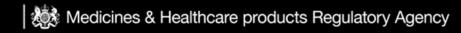
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SECTION 4: First aid measures				
4.1. Description of first aid measures				
General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.			
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Do not breathe dust. If breathing is difficult, (trained personnel should) give oxygen. IF exposed or concerned: Get medical advice/attention.			
Eye contact	Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.			
Skin contact	Get immediate medical attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction.			
Ingestion	Get immediate medical attention. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person.			
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.			
4.2. Most important symptoms and	effects, both acute and delayed			
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.			
Effects of Exposure	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.			
4.3. Indication of any immediate me	edical attention and special treatment needed			
Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.			





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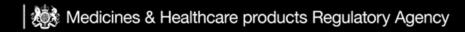
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SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.				
Large Fire	CAUTION: Use of water spray when 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 chemical	Product is or contains a sensitiser. May cause sensitisation by skin contact.				
5.3. Advice for firefighters					
Special protective equipment and precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gea Use personal protection equipment.					
SECTION 6: Accidental release measures					

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. Keep people away from and upwind of spill/leak.		
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	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.		
6.3. Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		





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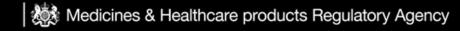
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Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference 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. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid breathing vapours or mists.
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. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.
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. Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
Storage class (TRGS 510)	LGK 6.1A.
7.3. Specific end use(s)	
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.





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8.1. Control parameters

limits

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

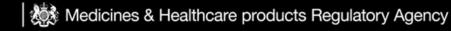
8.2. Exposure controls

Personal protective equipment

Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye/face protection

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 suitable gloves. Impervious 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 clot resistant apron.	hing. Long sleeved clothing. Im	pervious clothing. Chemical
Respiratory protection	When workers are facing con certified respirators.	ncentrations above the exposur	e limit they must use appropriate
General hygiene considerations	Avoid contact with skin, eyes	s or clothing. Do not eat, drink c	or smoke when using this





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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. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe dust. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

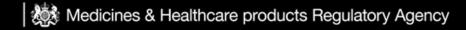
Environmental exposure controls

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

Solid	
white, to, off-white	
No information available	
No information available	
Values	Remarks • Method
149 - 150 °C	None known
eNo data available	None known
No data available	None known
	None known
No data available	
No data available	
No data available	None known
No data available	None known
	None known
	None known
	None known
No data available	None known
No data available	None known
No data available	None known
	None known
	None known
	None known
No data available	None known
No data available	
No data available	
	No information available No information available 149 - 150 °C peNo data available No data available





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None known

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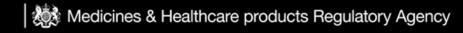
Relative vapour density	No data available
Particle characteristics	
Particle Size	No information available
Particle Size Distribution	No information available
9.2. Other information	
Molecular formula	C22 H28 N2 O . C6 H8 O7
Molecular weight	528.59

9.2.1. Information with regards 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 Excessive heat. 10.5. Incompatible materials Incompatible materials None known based on information supplied. 10.6. Hazardous decomposition products





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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

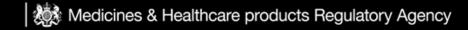
Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). May cause drowsiness or dizziness.	
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. Fatal in contact with skin. (based on components). May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.	
Ingestion	Specific test data for the substance or mixture is not available. Fatal if swallowed. (based on components).	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea	

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

Acute toxicity Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled. Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Fentanyl citrate	= 18 mg/kg (Rat)	-	-
Skin corrosion/irritation	Based on available data, the c	l lassification criteria are not met	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitisation	May cause an allergic skin rea	ction.	





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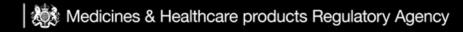
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Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.	
STOT - single exposure	May cause drowsiness or dizziness.	
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 prope Endocrine disrupting properties	<u>rties</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 information		
<u>12.1. Toxicity</u> Ecotoxicity	The environmental impact of this product has not been fully investigated.	
12.2. Persistence and degradability		

12.2. Persistence and degradability	_
Persistence and degradability	No information available.
12.3. Bioaccumulative potential	
Bioaccumulation	No information available.

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12.4. Mobility in soilNo information available.

12.5. Results of PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment
Fentanyl citrate	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

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.

SECTION 13: Disposal considerations

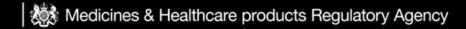
13.1. Waste treatment methods

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

14.1 UN number or ID number	UN2811	
14.2 UN proper shipping name	Toxic solid, organic, n.o.s. (Fentanyl Citrate)	
14.3 Transport hazard class(es)	6.1	
14.4 Packing group	ll	
Description	UN2811, Toxic solid, organic, n.o.s. (Fentanyl Citrate), 6.1, II	
14.5 Environmental hazards	No	
14.6 Special precautions for user		
Special Provisions	A3, A5	
ERG Code	6L	

1.1.1.1





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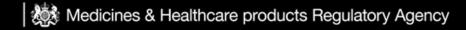
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IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group Description14.5Environmental hazards14.6Special precautions for user Special Provisions EmS-No.14.7Maritime transport in bulk according to IMO instruments	UN2811 Toxic solid, organic, n.o.s. (Fentanyl Citrate) 6.1 II UN2811, Toxic solid, organic, n.o.s. (Fentanyl Citrate), 6.1, II No 274 F-A, S-A 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	UN2811 Toxic solid, organic, n.o.s. (Fentanyl Citrate) 6.1 II UN2811, Toxic solid, organic, n.o.s. (Fentanyl Citrate), 6.1, II 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. (Fentanyl Citrate) 6.1 II UN2811, Toxic solid, organic, n.o.s. (Fentanyl Citrate), 6.1, II, (D/E) No 274, 614 T2 (D/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	UN2811 Toxic solid, organic, n.o.s. (Fentanyl Citrate) 6.1 II UN2811, Toxic solid, organic, n.o.s. (Fentanyl Citrate), 6.1, II No





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14.6 Special precautions for user	
Special Provisions	274, 614, 802
Classification code	T2
Equipment Requirements	PP, EP

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 so according to the applicable regulations	ome countries and needs to be treated
Germany Water hazard class (WGK) Chemical Prohibition Ordinance (ChemVerbotsV)	slightly hazardous to water (WGK 1) This product is subject to requirements and restriction	ons regarding handling and delivery
TRGS 905	Not applicable	
SwitzerlandNot applicableOrdinance 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 814.20Not applicableMajor Accidents Ordinance SR 814.012Not applicable		SC 6.1 Not applicable

European Union

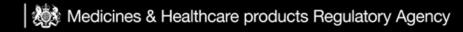
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

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





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Persistent Organic Pollutants Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU) H2 - ACUTE TOXIC

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

International Inventories TSCA

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

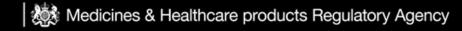
IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment





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Chemical Safety Report

A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

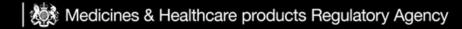
Key or legend to abbreviations and acronyms used in the safety data sheet

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

H300 - Fatal if swallowed

- H310 Fatal in contact with skin
- H317 May cause an allergic skin reaction
- H330 Fatal if inhaled
- H336 May cause drowsiness or dizziness
- H361 Suspected of damaging fertility or the unborn child
- 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
- P262 Do not get in eyes, on skin, or on clothing
- P280 Wear protective gloves, protective clothing, eye protection and face protection
- P302 + P352 IF ON SKIN: Wash with plenty of water and soap
- P310 Immediately call a POISON CENTER or doctor
- P321 Specific treatment (see supplemental instructions on the administration of antidotes on this label)
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse
- P260 Do not breathe dust, fume, gas, mist, vapors and spray
- P271 Use only outdoors or in a well-ventilated area
- P284 In case of inadequate ventilation wear respiratory protection
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P261 Avoid breathing dust, fume, gas, mist, vapors and spray
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P312 Call a POISON CENTER or doctor if you feel unwell

Legend





SAFETY DATA SHEET

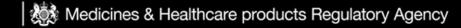
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ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International 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)
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





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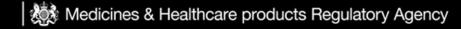
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NOAEC No Observed Adverse Effect Concentration NOAEL No Observed Adverse Effect Level No Observable Effect Loading Rate NOELR NZIoC New Zealand Inventory of Chemicals OECD Organization for Economic Cooperation and Development OEL Occupational exposure limits Persistent, Bioaccumulative and Toxic substance PBT 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 Transport of Dangerous Goods (Canada) TDG TRGS Technical Rule for Hazardous Substances Toxic Substances Control Act (United States) TSCA TWA Time-Weighted Average United Nations JN VOC Volatile organic compounds vPvB Very Persistent and Very Bioaccumulative Very Persistent and Very Mobile vPvM 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

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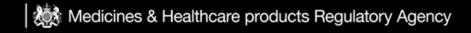
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Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitisation	Calculation method	
Skin sensitisation	Calculation method	
Mutagenicity	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

Revision date	10-Feb-2025
Reason for revision	Classification Gloves Material





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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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