

SAFETY DATA SHEET

Issuing Date: 28-Jun-2021 Revision Date: 25-May-2022

1. Identification

Product identifier

SDS Number: 1093673

Product Name: Cyclophosphamide

Other means of identification

Synonyms: None

Recommended use of the chemical and restrictions on use

Product Use: Pharmaceutical.

Product Type: Regulated Prescription Drug
Uses advised against No information available

Details of manufacturer or importer

Baxter Healthcare Pty. Ltd.

1 Baxter Drive

Old Toongabbie NSW 2146 Australia

Telephone: (02) 98481111

Emergency telephone number

Australia: 1 800 229 837 and Poison Information Centre 13 11 26

Verisk 3E Global Incident Response Hotline +1 760 476 3962; Access Code 335625

2. Hazard(s) identification

GHS Classification

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 1A - (H340)
Carcinogenicity	Category 1A - (H350)
Reproductive toxicity	Category 1A - (H360)
Effects on or via lactation	Yes - (H362)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)

Label elements

Exclamation mark Health hazard Corrosion







Signal word Danger

Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H340 - May cause genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H362 - May cause harm to breast-fed children

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Avoid contact during pregnancy/while nursing

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

General Hazards No information available

3. Composition/information on ingredients

Chemical Name	CAS No.	Weight-%
Cyclophosphamide	50-18-0	100
50-18-0		

4. First-aid measures

Description of first aid measures

General Advice Treat symptomatically and supportively.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

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Skin contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated

clothing and shoes. Wash clothing before reuse. Get medical attention.

Revision Date: 25-May-2022

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin. May cause sensitization by skin contact. Contains a known or suspected carcinogen. Contains a known or suspected mutagen. Contains a known or suspected reproductive toxin.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. See patient package insert in shipping carton for complete information.

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding materials.

Specific hazards arising from the chemical

No information available

Special protective actions for fire-fighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental precautions

See Section 12 for environmental precautions.

Methods and material for containment and cleaning up

Methods for Containment:

Place spilled material in an appropriate container for disposal. Prevent dust cloud. Clean up promptly by sweeping or vacuum.

Methods for cleaning up:

Place spilled material in an appropriate container for disposal.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Technical measures/precautions: Do not ingest. Avoid skin contact. Avoid eye contact. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures and storage Keep containers tightly closed in a cool, well-ventilated place. Store at or below 25°C

conditions: (77°F). Store in original container. Keep away from heat.

Incompatible materials: No information available

8. Exposure controls/personal protection

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.

Revision Date: 25-May-2022

Chemical Name	Australia nohsc:	ACGIH TLV
Cyclophosphamide - 50-18-0	-	-

Appropriate engineering controls

Engineering Measures Provide general or local exhaust ventilation. Open handling must be limited.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Disposable close-front gown or coveralls.

Hand protection Latex gloves. Nitrile rubber.

dust and/or fumes, use a properly fitted air-purifying respirator.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Solid.
Appearance: Crystalline
Color: White
Odor: Odorless

Odor Threshold: No information available

pH: 4.0 - 6.0 Melting point / melting range: 49 - 53 °C

Boiling point / boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

No information available
No information available
No information available

Flammable limits 3000 g/m³

in air-upper (%):

Flammable limits 750 g/m³

in air-lower (%):

Vapor pressure: 0.0000033 kPa

Vapor densityNo information availableDensity:No information available

Solubility: Soluble in water. **Partition coefficient** log Kow = 0.63

(n-octanol/water):

Autoignition temperature:

Decomposition temperature

Viscosity:

Explosive Properties:

Oxidizing Properties:

No information available
No information available
No information available
No information available

Other information

Molecular weight: 279.1

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None under normal use conditions

Conditions to Avoid

Do not freeze.

Incompatible materials

Acids. Alkali metals. Oxidizing agents.

Hazardous decomposition products

Halogenated hydrocarbons. Organic compounds of phosphoric compounds. Organic nitrogenous products of decomposition.

11. Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation: Harmful: danger of serious damage to health by prolonged exposure through inhalation

Irritating to respiratory system.

Eye contact: Risk of serious damage to eyes

Skin contact: Toxic: danger of serious damage to health by prolonged exposure with skin.

Ingestion: Harmful if swallowed. Toxic: danger of serious damage to health by prolonged exposure if

swallowed. Gastrointestinal effects (may include nausea/vomiting, abdominal pain, diarrhea, dry mouth, colic). Dermatologic effects (may include exfoliative dermatitis, photosensitivity, rash, itching). Hair loss. Blood effects (may include anemia, neutropenia (decreased number of neutrophils), thrombocytopenia (decreased number of platelets),

bone marrow depression). Immune system effects.

Symptoms: No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Unknown acute toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50		

Cyclophosphamide	342 mg/kg (rat)	-	-
50-18-0			

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

Corrosivity: Not classified.

Irritation: Causes serious eye damage. Causes skin irritation.

Sensitization: May cause an allergic skin reaction.

Mutagenic effects: Contains a known or suspected mutagen.

Carcinogenic effects: Contains a known or suspected carcinogen.

Reproductive toxicity: May impair fertility. May cause harm to the unborn child. May cause harm to breastfed

babies.

STOT - single exposure: Not classified.

STOT - repeated exposure: Bladder. Bone marrow.

Aspiration Hazard: Not classified.

12. Ecological information

Ecotoxicity

No information available

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

	Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
С	Cyclophosphamide 50-18-0	-	-	-	-

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
Cyclophosphamide 50-18-0	-

Mobility

No information available

Other adverse effects

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

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Cyclophosphamide 50-18-0	-	-	-

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

In accordance with local and national regulations

Contaminated Packaging In accordance with local and national regulations

14. Transport information

ADG Not regulated

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

15. Regulatory information

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

National regulations

Australia

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

International Inventories

Does not comply **TSCA DSL/NDSL** Does not comply **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply Does not comply KECL **PICCS** Does not comply **AICS** Does not comply Complies **NZIOC**

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 and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals and Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

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Revision Date: 25-May-2022

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. Other information

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Revision Note:

None

Key or legend to abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA TWA (time-weighted average)
STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

* Skin designation
C Carcinogen

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) EPA (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)

Japan GHS Classification

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)

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

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Disclaimer

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End of Safety Data Sheet