

Issuing Date: 20-Mar-2019

Revision Date: 03-Nov-2021

1. Identification**Product identifier**

SDS Number: BXU531377
Product Name: Actinomycin D

Other means of identification

Synonyms: Dactinomycin;
2-Amino-(N,N)-1-bis(hexadecahydro-6,13-diisopropyl-2,5,9-trimethyl-1,4,7,11,14-pentaoxo-1H-pyrrolo[2,1]-[1,4,7,10,13]oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide;
2-amino-4,6-dimethyl-3-oxo-1-N,9-N-bis[7,11,14-trimethyl-2,5,9,12,15-pentaoxo-3,10-di(propan-2-yl)-8-oxa-1,4,11,14-tetraazabicyclo[14.3.0]nonadecan-6-yl]phenoxazine-1,9-dicarboxamide;
2-amino-N,N'-bis(6,13-diisopropyl-2,5,9-trimethyl-1,4,7,11,14-pentaoxohexadecahydro-1H-pyrrolo[2,1-i][1,4,7,10,13]oxatetraazacyclohexadecin-10-yl)-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide;
N1,N9-bis[(6S,9R,10S,13R,18aS)-2,5,9-trimethyl-1,4,7,11,14-pentaoxo-6,13-bis(propan-2-yl)-hexadecahydro-1H-pyrrolo[2,1-i]1-oxa-4,7,10,13-tetraazacyclohexadecan-10-yl]-2-amino-4,6-dimethyl-3-oxo-3H-phenoxazine-1,9-dicarboxamide

Recommended use of the chemical and restrictions on use

Product Use: Antineoplastic Agent.
Product Type: Active Pharmaceutical Ingredient (API)
Uses advised against No information available

Details of the supplier of the safety data sheet

BAXTER HEALTHCARE
33 Vestey Drive
Mt Wellington Auckland, 1060 New Zealand
Telephone: (09) 574 2400

Emergency telephone number

New Zealand: 0800 229 837 and Poison Information Centre 0800 764 766
Verisk 3E Global Incident Response Hotline +1 760 476 3962; Access Code 335625

2. Hazard(s) identification**GHS Classification**

Acute toxicity - Oral	Category 2 (HSNO - 6.1B)
Reproductive toxicity	Category 1B (HSNO - 6.8A)

Label elements**Signal word**

5. Fire-fighting measures

Suitable Extinguishing Media

Use foam or all purpose dry chemicals to extinguish.

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:

If emergency personnel are unavailable, contain spilled material.

Methods for cleaning up:

Shovel or sweep up. Place spilled material in an appropriate container for disposal. Clean contaminated surface thoroughly. Avoid production of dust.

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. Avoid production of dust. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Store between 2-8 °C (35.6 to 46.4 °F). Store in original container. Protect from light. Avoid excessive heat. Keep away from moisture.

Incompatible materials: Oxidizing agents. Strong acids. Strong bases.

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.

Chemical Name	New Zealand TWA	ACGIH TLV	Uk oes/mel:	Australia_nohsc :
Actinomycin D - 50-76-0	-	-	-	-

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

Chemical Name	New Zealand	ACGIH
Actinomycin D - 50-76-0	-	-

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 Eye protection not required for normal final product use. Safety glasses with side-shields are recommended for laboratory and manufacturing use.

Hand protection Latex gloves. Nitrile rubber.

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

Respiratory protection In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Environmental exposure controls No information available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Solid.
Appearance: hygroscopic powder
Color: Red.
Odor: No information available
Odor Threshold: No information available
pH: No information available
Melting point / melting range: 251-253°C
Boiling point / boiling range: No information available
Flash point: No information available
Evaporation rate: No information available
Flammability (solid, gas): No information available
Flammable limits in air-upper (%): No information available
Flammable limits in air-lower (%): No information available
Vapor pressure: 0 mmHg @ 25°C
Vapor density No information available
Density: No information available
Solubility: Slightly soluble in water.
Partition coefficient (n-octanol/water): No information available
Autoignition temperature: No information available
Decomposition temperature No information available
Viscosity: No information available
Explosive Properties: No information available
Oxidizing Properties: No information available

Other information

Molecular weight: 1255.42 g/mole

Corrosivity: Not classified.
Irritation: Not classified.
Sensitization: Not classified.
Mutagenic effects: Not classified.
Carcinogenic effects: Listed by IARC as a Group 3.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	New Zealand	IARC
Actinomycin D - 50-76-0	-	Group 3

Legend

IARC (International Agency for Research on Cancer)
 Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity: May be fetotoxic based on animal data. May be teratogenic based on animal data.
STOT - single exposure: Not classified.
Respiratory irritation Not classified.
Narcotic effects Not classified.
STOT - repeated exposure: Not classified.
Aspiration hazard: Not classified.

12. Ecological information

Ecotoxicity

No information available

Aquatic ecotoxicity

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Actinomycin D 50-76-0	-	-	-

Terrestrial ecotoxicity

Chemical Name	Earthworm	Avian	Honeybees
Actinomycin D 50-76-0	-	-	-

Persistence and Degradability

No information available.

Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
Actinomycin D 50-76-0	-

EPA New Zealand HSNO approval HSR006280
code or group standard:

Chemical Name	New Zealand - GHS Classifications - HSNO Chemical Classification Information Database (CCID)
Actinomycin D - 50-76-0	6.1A oral,6.4A,9.3A

International Inventories

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

- NZIOC** - New Zealand Inventory of Chemicals and Chemical Substances
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - 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

International Regulations

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

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	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