

Safety Data Sheet

#90018462 · Full 16-section SDS

According to Regulation (EC) No 1907/2006
According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Fidaxomicin	873857-62-6	C52H74Cl2O18	10	24 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name	Fidaxomicin
CAS number	873857-62-6
EC / EINECS number	692-555-6
Chemical formula	C52H74Cl2O18
Molecular weight	1058.04
SMILES	CC[C@H]1/C=C/[C@H](C/C=C/C=C/C(=O)O[C@@H](C/C=C/C=C/[C@H]1O[C@H]2[C@H]([C@H]([C@@H](C(=O)C(C)OC(=O)C(C)O)O)\C)\C)[C@@H](C(=O)CO[C@H]3[C@H]([C@H]([C@@H]([C@H](O3)C)OC(=O)C4=C(C(=C(C(=C4O)Cl)O)Cl)CC)O)OC)O)\C

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

For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
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H302	Harmful if swallowed
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CODE	PRECAUTIONARY STATEMENT
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P264	Wash thoroughly after handling
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P270	Do not eat, drink or smoke when using this product
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P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
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P330	Rinse mouth
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P501	Dispose of contents/container to an approved waste disposal plant
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2.3 Other hazards

No PBT/vPvB components identified at $\geq 0.1\%$. PubChem notes potential endocrine-disruptor suspect status (screening data, not formal classification).

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Fidaxomicin
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CAS number	873857-62-6
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EC number	692-555-6
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Concentration / purity	90-100% w/w
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Classification according to Regulation (EC) No 1272/2008	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332
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Hazard statements	H302
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Acute toxicity estimate (ATE)	None reported
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Impurities / stabilising additives	No stabilising additives or reportable components identified; no specific impurity profile provided.
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SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move person to fresh air. If breathing is difficult or symptoms occur, obtain medical attention. Avoid mouth-to-mouth resuscitation if contamination is suspected.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and plenty of water. Seek medical attention if irritation or symptoms develop.
Eye contact	Rinse cautiously with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Obtain medical attention if symptoms persist.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor/Poison Centre if unwell.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Main identified hazard is harmfulness if swallowed. Treat symptomatically; show this SDS to medical personnel.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media Do not scatter spilled material with high-pressure water streams.

5.2 Special hazards arising from the substance or mixture

Combustible solid; avoid dust creation. Nature of decomposition products unknown.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full firefighting protective clothing. Prevent exposure to smoke, fumes, and decomposition products.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation and breathing dust/vapour. Ensure adequate ventilation. Wear suitable gloves, protective clothing, and safety goggles. Keep unnecessary personnel away.

6.2 Environmental precautions

Avoid release to drains, soil, or water. Prevent further leakage where safe to do so.

6.3 Methods and material for containment and cleaning up

Sweep up or carefully shovel without creating dust. Transfer to suitable, closed, labelled containers for disposal. Use local exhaust and good laboratory hygiene.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid dust generation. Provide local exhaust ventilation where dust is formed. Avoid contact with eyes and prolonged skin contact. Wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature 2 to 8 °C

Conditions for safe storage (incompatibilities) Keep tightly closed in a dry, cool, and well-ventilated place. Store in the original receptacle where practicable. Keep away from strong oxidising agents. Keep separate from foodstuffs.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) No statutory occupational exposure limit identified.

DNEC/PNEC data Adequate ventilation; local exhaust at dust-generating operations; eyewash facilities recommended.

8.2 Exposure controls

Eye / face protection Safety glasses
Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection Suitable chemically resistant gloves (EN 374) and protective clothing.

Respiratory protection Full-face respirator
Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

Other protection Body protection

Environmental exposure controls No special precautions

SECTION 9

Physical & chemical properties**9.1 Information on basic physical and chemical properties**

Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	White to off-white DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	~ 161 °C DERIVED FROM: LITERATURE
Boiling point	1,046.4 °C DERIVED FROM: LITERATURE
Flammability	<i>Not applicable</i>
Lower and upper explosion limit	<i>No data available</i>
Flash point	<i>Not applicable</i>
Auto-ignition temperature	<i>No data available</i>
Decomposition temperature	<i>No data available</i>
pH	<i>No data available</i>
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	<i>No data available</i>
Solubility	Practically/slightly soluble in water (predicted: 0.0125 mg/mL) DERIVED FROM: LITERATURE
Partition coefficient n-octanol/water (log value)	6.4 (log Pow) DERIVED FROM: LITERATURE
Vapour pressure	No data available (predicted: ~0.0 ± 0.3 mmHg at 25 °C) DERIVED FROM: LITERATURE
Density (g/mL)	1.33 g/mL DERIVED FROM: LITERATURE
Relative vapour density	<i>No data available</i>
Particle characteristics	<i>No data available</i>

9.2 Other information*No data available*

SECTION 10

Stability & reactivity**10.1 Reactivity***No data available*

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Excessive heat, moisture, dust generation

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

Hazardous decomposition products may be generated in a fire; nature unknown. See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) Acute Tox. 4, oral (H302)

Skin corrosion / irritation *No data available*

Eye corrosion / irritation *No data available*

Respiratory / skin sensitisation *No data available*

Carcinogenicity *No data available*

Mutagenicity *No data available*

Reproductive toxicity *No data available*

STOT (single / repeated exposure) *No data available*

Aspiration hazard No data available / not applicable

11.2 Information on other hazards

No data available

SECTION 12

Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available; log Pow 6.4 does not establish regulatory bioaccumulation

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No components considered PBT/vPvB at $\geq 0.1\%$

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose via licensed chemical waste contractor; do not discharge to drains; incineration if applicable

SECTION 14

Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special precautions for user Not applicable

Transport category Not applicable

Tunnel code Not applicable

Packing instruction (ADR) Not applicable

Packing instruction (IMDG) Not applicable

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences)

Health and Safety at Work etc. Act 1974, The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009, EH40/2005 Workplace exposure limits, Regulation (EC) No 1907/2006 (REACH), Commission Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008 (CLP).

REACH code

Not applicable

ECHA notification

ECHA C&L; 2 notifications with 37 aggregated reports (97.3% Acute Tox. 4 / H302)

15.2 Chemical safety assessment

No

SECTION 16

Other information

Revision notes / other information

This version (v10) of this MSDS was created on 24.09.2026 and replace v1 (26.07.2021)- H312 and H332 were removed due to lack of evidence.

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.