

Safety Data Sheet

#14946502 · Full 16-section SDS

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

Molekula Limited

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PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Lipoxidase	9029-60-1	C58H46N2	10	03 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name	Lipoxidase
CAS number	9029-60-1
EC / EINECS number	232-853-1
Chemical formula	C58H46N2
Molecular weight	771.0
SMILES	CC1(C2=CC=CC=C2C3=C1C=C(C=C3)C4=CC(=CC=C4)C5=CC6=C(C=C5)C7=C(N6C(C=C(C8=CC=C(C(C=C8)C9=CC=CC=C9)N)C1=CC=CC=C1)CCC1=CC=

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

For research use, laboratory use, manufacture of chemicals only. Not for human or veterinary use.

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

Resp. Sens. 1; H334

2.2 Label elements



DANGER

CODE	HAZARD STATEMENT
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
CODE	PRECAUTIONARY STATEMENT
P233	Keep container tightly closed
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P271	Use only outdoors or in a well-ventilated area
P284	Wear respiratory protection
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P403	Store in a well-ventilated place

2.3 Other hazards

Does not contain components considered to have endocrine-disrupting properties. Does not meet PBT or vPvB criteria under REACH Annex XIII.

SECTION 3

Composition / information on ingredients**3.1 Substances**

Name	Lipoxidase
CAS number	9029-60-1
EC number	232-853-1
Concentration / purity	c. 100% Lipoxidase (CAS: 9029-60-1): H334
Classification according to Regulation (EC) No 1272/2008	Resp. Sens. 1; H334
Hazard statements	H334
Acute toxicity estimate (ATE)	No data available
Impurities / stabilising additives	None

SECTION 4

First-aid measures**4.1 Description of first aid measures**

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin contact	Wash with plenty of water. Continue to rinse for at least 15 minutes and seek medical attention.
Eye contact	Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention.
Ingestion	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

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

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5

Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Unsuitable extinguishing media	None known

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Collect spillage with shovel, broom or the like. Absorb spillage with a suitable absorbent material.

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**

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature -15 to -20 °C

Conditions for safe storage (incompatibilities) Storage class: 11

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) Not applicable

DNEC/PNEC data Not applicable

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 Gloves: Nitrile Rubber, 0.11mm (480 mins).

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 No data available

Environmental exposure controls No data available

SECTION 9

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

Appearance / physical state Solid
DERIVED FROM: LITERATURE

Colour White to off-white
DERIVED FROM: LITERATURE

Odour Odourless
DERIVED FROM: LITERATURE

Melting / freezing point Not applicable

Boiling point Not applicable

Flammability No data available

Lower and upper explosion limit No data available

Flash point Not applicable

Auto-ignition temperature Not applicable

Decomposition temperature No data available

pH Not applicable

Acidity Neutral
DERIVED FROM: LITERATURE

Kinematic viscosity No data available

Solubility Not applicable

Partition coefficient n-octanol/water (log value) Not applicable

Vapour pressure Not applicable

Density (g/mL) 1 g/mL
DERIVED FROM: LITERATURE

Relative vapour density No data available

Particle characteristics No data available

9.2 Other information

No data available

SECTION 10

Stability & reactivity**10.1 Reactivity***No data available***10.2 Chemical stability**

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions*No data available***10.4 Conditions to avoid**

Heat, sparks, flames.

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition products

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)** *Not applicable***Skin corrosion / irritation** *Not applicable***Eye corrosion / irritation** *Not applicable***Respiratory / skin sensitisation** May cause sensitisation by inhalation.**Carcinogenicity** *Not applicable***Mutagenicity** *Not applicable***Reproductive toxicity** *Not applicable***STOT (single / repeated exposure)** *Not applicable***Aspiration hazard** *Not applicable***11.2 Information on other hazards***Not applicable*

SECTION 12

Ecological information**12.1 Toxicity***Not applicable***12.2 Persistence and degradability***Not applicable***12.3 Bioaccumulative potential***Not applicable***12.4 Mobility in soil***Not applicable***12.5 Results of PBT and vPvB assessment***Not applicable***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 of in accordance with local/national regulations

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	<i>Not applicable</i>
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Transport category	<i>Not applicable</i>
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Tunnel code	<i>Not applicable</i>
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Packing instruction (ADR)	<i>Not applicable</i>
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Packing instruction (IMDG)	<i>Not applicable</i>
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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)	<i>No data available</i>
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REACH code	Y110
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ECHA notification	<i>Not applicable</i>
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15.2 Chemical safety assessment

Not applicable

SECTION 16

Other information

Revision notes / other information

Hazard classification and labelling according to Regulation (EC) 1272/2008

All eye/face protection should comply with EN ISO 16321-1:2022

Respiratory equipment: Reusable air-purifying respirator (APR)

Filter Type: ABEK

Standard: EN 14387

National Regulations:

-Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances

Other regulations, limitations and legal regulations:

-Directive 94/33/EC- The protection of young people at work

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.