

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **Rapamycin**
Product Code R64500
CAS Number 53123-88-9
Other Names
IUPAC
MFCN Number
EC/EINECS
REACH Number Index-No

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

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road, Chelsworth
Ipswich
Suffolk
IP77LE
UK



Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk

4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

H373 STOT RE 2

2. Label elements

Signal Word **Warning**



Hazard Statements

H373 May cause damage to organs ..

Precautionary Phrases

Non Hazardous

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
Rapamycin		
CAS Number: 53123-88-9	H373 STOT RE 2	<=100%

4. First Aid Measures

1. Description of first aid measures

Skin Contact Wash immediately with plenty of soap and water.
Consult a doctor.

Eye Contact Bathe the eye with running water for 15 minutes.
Consult a doctor.

<i>Ingestion</i>	Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	Supply fresh air; consult a doctor in case of complaints. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If unconscious, check for breathing and apply artificial respiration if necessary.

2. Most important symptoms and effects

No data available

3. Indication of any immediate medical attention

No data available

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Dry chemical powder.

Unsuitable No data available

2. Special Hazards arising from the substance or mixture

NA

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is exhaust ventilation of the area.
Protection against explosions and fires No special requirements
Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

Storage Controls Keep container tightly closed.

Maintaining Integrity No special requirements

Other advice no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures

The standard precautionary measures should be adhered to when handling

Engineering measures

Provide appropriate exhaust ventilation.

Eye / Face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

Respiratory protection

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Other personal protection advice no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Powder
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	183-185°C
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under recommended storage conditions

3. Possibility of Hazardous Reactions

No data available

4. Conditions to Avoid

No data available

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	LD50 Oral > 2,500 mg/kg (Mouse)
<i>Skin corrosion/irritation</i>	no data available
<i>Serious eye Damage/irritation</i>	no data available
<i>Respiratory or skin sensitisation</i>	no data available
<i>Germ Cell mutagenicity</i>	no data available
<i>Carcinogenicity</i>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive toxicity</i>	no data available
<i>STOT-single exposure</i>	no data available
<i>STOT-repeated exposure</i>	no data available
<i>Aspiration hazard</i>	no data available

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

6. Other adverse effects

not known

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.