Safety Data Sheet

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name	**Protease Inhibitor Cocktail III (Mammalian Free)**
Product Code	p50750
CAS Number	
Other Names	
IUPAC	
MFCD Number	
EC/EINECS	
REACH Number	Index-No

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

Laboratory Research and Development

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

Non Hazardous

2. Label elements

Non Hazardous

Hazard Statements

Non Hazardous

Precautionary Phrases

Non Hazardous

3. Other Hazards

Non Hazardous

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
Protease Inhibitor Cocktail III (Mammalian Free)		
		<=100%

4. First Aid Measures

1. Description of first aid measures

Skin Contact Remove all contaminated clothes and footwear immediately unless stuck to skin.
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
Consult a doctor.

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

Ingestion	Wash out mouth with water. Do not induce vomiting. Consult a doctor.
Inhalation	Move to fresh air in case of accidental inhalation. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor

2. Most important symptoms and effects

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

3. Indication of any immediate medical attention

Notes to Physician: Treat symptomatically

5. Firefighting measures

1. Extinguishing Media

Suitable	Water spray. Carbon dioxide. Dry chemical powder.
Unsuitable	Do not use water jet.

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form:
Carbon oxides, nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas, Hydrogen fluoride

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.
Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Using non-spark tools, sweep up material and place in an appropriate 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	Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure
Protection against explosions and fires	Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks	Store at -20° C. Keep container tightly closed.
Storage Controls	No special requirements
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	Use in a chemical fume hood, with air supplied by an independent system.
Eye / Face Protection	Safety Glasses with side-shields. 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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Skin protection	Wear appropriate protective clothing. Complete suit protecting against chemicals, 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 available

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
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

Store cold at -20 C
Stable under recommended storage conditions.

3. Possibility of Hazardous Reactions

No data available

4.Conditions to Avoid

Heat.
Moist Air.

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion may emit toxic fumes:
Carbon oxides, nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas, Hydrogen fluoride

11. Toxicology information

1. Information

Acute Toxicity	Components: Pepstatin A LD50 (oral)-RAT- >2000 mg/kg Aprotinin LD50 (Intraperitoneal)- RAT- >40mg/kg DMSO DL50 (oral) -RAT- 14500 mg/kg; LC50 (inhalation)-RAT- 40250ppm-4H; LD50 (dermal)-RABBIT- >5000 mg/kg
Skin corrosion/irritation	No data available
Serious eye Damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ Cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	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

Component: DMSO
EC50 (freshwater algae) 96h- 12350-25500 mg/L
LC50 (freshwater fish) 96h- 33-37g/L
EC50 (water flea) 24h 7000 mg/L

2. Persistence and degradability

No data available

3. Bio-Accumulative Potential

No data available

4. Mobility and Soil

No data available

5. Results of PBT & vPvB assessment

No data available

6. Other adverse effects

May be harmful to the aquatic environment.
There are no known carcinogenic chemicals in this product

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Hand over to authorised disposal company as hazardous waste.

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:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006
ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)
RID:Reglement International concernant le transport des merchandises 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 information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage , transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material nused in combination with any other material or in any process unless specified in the text