

Chymotrypsin substrate (MeO-Suc-Arg-Pro-Tyr-pNA)

Cat#: orb525754 (MSDS)

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Chymotrypsin substrate (MeO-Suc-Arg-Pro-Tyr-pNA)

Catalog Number: orb525754

CAS Number: n/ap

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

Identified Uses: Laboratory chemicals, Manufacture of substances

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance.

2.2 GHS Label elements

Not a hazardous substance.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product Name: MeO-Suc-Arg-Pro-Tyr-pNA

Trade Name: MeO-Suc-RPY-pNA

Formula: C₃₁H₄₀N₈O₉

Molecular Weight: 668.71

CAS Number: n/a

4. FIRST-AID MEASURES

4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

If inhaled: Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In case of skin contact: Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In case of eye contact: Flush with copious amounts of water for at least 15 minutes.

Consult a doctor.

If swallowed: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

5.3 Precautions for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections

For required PPE see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for 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.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Desiccate at -20°C

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2 Appropriate engineering controls

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

8.3 Individual protection measures/ Personal protective equipment (PPE)

Eye/face protection: Use appropriate safety glasses as tested and approved under NIOSH (US) or EN 166(EU) government standards.

Skin protection: Use appropriate chemical resistant. Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body protection: Wear appropriate protective clothing.

Respiratory protection: If risk assessment indicates necessary, use a suitable respirator.

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).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: White to yellowish powder

Odor: No data available

Odor threshold: No data available

pH: No data available

Melting / freezing point: No data available

Boiling point / 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

Vapor pressure: No data available

Vapor density: No data available

Relative density: No data available

Solubility: Soluble in water

Partition coefficient: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Oxidizing properties: No data available

Explosive properties: No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable under recommended transport or storage conditions.

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid: Heat, moisture.

10.5 Incompatible materials: Strong acids/alkalis, strong oxidizing/reducing agents.

10.6 Hazardous decomposition products: In combustion may emit toxic fumes. No known decomposition information.

11. TOXICOLOGICAL INFORMATION

11.1 Symptoms / Routes of exposure

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion: There may be irritation of the throat.

Skin: There may be mild irritation at the site of contact.

Eyes: There may be irritation and redness.

Delayed / Immediate Effects: No known symptoms.

11.2 Delayed/immediate effects and also chronic effects from short- and long-term exposure.

Skin corrosion/irritation: Classification criteria are not met based on available data

Serious eye damage/irritation: Classification criteria are not met based on available data

Respiratory or skin sensitization: Classification criteria are not met based on available data

Germ cell mutagenicity: Classification criteria are not met based on available data

Carcinogenicity: Classification criteria are not met based on available data

Reproductive toxicity: Classification criteria are not met based on available data

Specific target organ toxicity - single exposure: Classification criteria are not met based on available data

Specific target organ toxicity - repeated exposure: Classification criteria are not met based on available data

Aspiration hazard: Classification criteria are not met based on available data

11.3 Acute Toxicity

Classification criteria are not met based on available data

11.4 Additional Information: RTECS No: GT9195500, Exposure may cause irritation of eyes, mucous membranes, upper respiratory tract and skin. To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.6 Other adverse effects: May be harmful to the aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

13.2 Contaminated packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation

14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG, DOT, and IATA.

14.1 UN-Number: Does not meet the criteria for classification as hazardous for transport.

14.2 UN proper shipping name: Does not meet the criteria for classification as hazardous for transport.

14.3 Transport hazard class(es): Does not meet the criteria for classification as hazardous for transport.

14.4 Packaging group: Does not meet the criteria for classification as hazardous for transport.

14.5 Environmental hazards: This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

14.6 Special precautions for users: No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been made for this product