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|-----------------|----------------------|
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| Date updated | 06/26/2008 |

Section 1-Product Information

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|------------------|--|
| Product name | Thyrotropin-Releasing Hormone (TRH), Free Acid |
| Product Cat. No. | RP10114 |

Section 2-Composition / Information on Ingredients

| | |
|------------------------|---|
| Substance/Preparation: | Substance |
| Ingredient Name | Thyrotropin-Releasing Hormone (TRH), Free Acid |
| CAS No. | 24769-58-2 |
| SARA 313 | No |
| Formula | C ₁₆ H ₂₁ N ₅ O ₅ |

Section 3- Hazards Identification

| | |
|--------------------|--|
| Emergency Overview | |
| Caution | The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care. |
| HMIS Rating | |
| Health | 3 |
| Flammability | 0 |
| Reactivity | 0 |
| NFPA Rating | |
| Health | 3 |
| Flammability | 0 |
| Reactivity | 0 |

For additional information on toxicity, please refer to Section 11.

Section 4- First Aid Measures

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|---------------------|---|
| Oral Exposure | If swallowed, wash out mouth with water provided person is conscious. Call a physician. |
| Inhalation Exposure | If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. |
| Dermal Exposure | In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician. |
| Eye Exposure | In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. |

Section 5- Fire Fighting Measures

| | |
|------------------------------------|--|
| Flash Point | Not available |
| Autoignition Temp | Not available |
| Flammability | Not available |
| Extinguishing Media Suitable | Carbon dioxide, dry chemical powder, or appropriate foam. Water spray |
| Fire Fighting Protective Equipment | Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. |

Section 6- Accidental Release Measures

| | |
|---|---|
| Procedure to be Followed in Case of Leak or Spill | Evacuate area |
| Procedure(s) of Personal Precaution(s) | Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves |

Methods for Cleaning up

Avoid raising dust. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7-Handling and Storage

Handling

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed

Storage at -20°C

Section 8-Exposure Controls/Personal Protection Equipment

Engineering Controls

Mechanical exhaust required

Personal Protective equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand:

Compatible chemical-resistant gloves

Eye:

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance

Physical State

Solid

Property

Molecular Weight

363.37 AMU

pH

Not available

BP/BP Range

Not available

MP/MP Range

Not available

Freezing Point

Not available

Vapor Pressure

Not available

Vapor Density

Not available

Saturated Vapor Conc.

Not available

SG/Density

Not available

Bulk Density

Not available

Odor Threshold

Not available

Volatile%

Not available

VOC Content

Not available

Water Content

Not available

Solvent Content

Not available

Evaporation Rate

Not available

Viscosity

Not available

Surface Tension

Not available

Partition Coefficient

Not available

Decomposition Temp.

Not available

Flash Point

Not available

Explosion Limits

Not available

Flammability

Not available

Autoignition Temp

Not available

Refractive Index

Not available

Optical Rotation

Not available

Miscellaneous Data

Not available

Solubility

Not available

Section 10- Stability and Reactivity

Stability

Stable

Stable

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerization
Hazardous Polymerization Will not occur

Section 11- Toxicological Information

Route of Exposure
Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.
Signs And Symptoms Of Exposure Blood effects. Nausea, dizziness, and headache. Exposure can cause: Urge to urinate, abdominal discomfort, and dry mouth. By analogy to l-pyroglutamyl-l-histidyl-l-prolinamide.
Conditions Aggravated by Exposure The toxicological properties have not been thoroughly investigated.

Section 12- Ecological Information

No data available.

Section 13- Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14- Transport Information

DOT
Proper Shipping Name None
Non-Hazardous for Transport This substance is considered to be non-hazardous for transport.
IATA
Non-Hazardous for Air Transport Non-hazardous for air transport

Section 15- Regulatory Information

US Classification and Label Text
US Statements Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
United States Regulatory information
SARA Listed No
Canada Regulatory information
WHMIS Classification This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL No
NDSL No

Section 16- Other Information

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.