Safety Data Sheet (SDS)

<u>on</u>
Chlorotoxin H - MC(S-)M PC(S-)F TTD HQM ARK C(S-)DD C(S-)C(S-)G GKG RGK C(S-)YG PQC(S-) LC(S-)R - NH2 (Disulfide bridge: 2 - 19,5 - 28,16 - 33,20 - 35)
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AS-60770 For laboratory use only.
Please contact the regional Eurogentec representation in your country or Kaneka Eurogentec S.A. directly (from 8 am to 6 pm)
ecommend handling all chemicals with caution. Use proper dling chemicals. To our knowledge, the hazards of this material

GHS Hazard Statements: None

GHS Precautionary Statements: None

Potential Health Effects for:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Good hygiene practice requires that exposure be kept to a minimum and that suitable control

measures be used in an occupational setting.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Skin: In case of contact, immediately wash skin with soap and copious amount of water.

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Chronic Exposures: No information available. We recommend limiting prolonged exposure.

Target Organs: No information available

HMIS Classification

Health hazard: 0

Chronic Health Hazard: 0

Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

3. Composition

Ingredients/Components:

Chemical Name: Chlorotoxin

H - MC(S-)M PC(S-)F TTD HQM ARK C(S-)DD C(S-)C(S-)G GKG RGK

 $C(S-)YGPQC(S-)LC(S-)R-\widetilde{NH2}$

(Disulfide bridge: 2 - 19,5 - 28,16 - 33,20 - 35)

Molecular formula: NA Molecular weight: 3996.0

CAS-No NA EC-No NA

4. First Aid Measures

Inhalation:	If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.			
Ingestion:	If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible maintain open airway and prevent aspiration. Observe the patient carefully. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can compared the compared to the compa			
Skin:	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.			
Eyes:	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs seek medical attention.			

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5. Fire Fighting Meas	ures		
Extinguishing media:		Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide	
Special firefighting procedures: Unusual fire and explosions hazards:		Alert Emergency Responders and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.	
		Emits toxic fumes under fire conditions	
6. Accidental Release	Measures		
Spill response	Clean up a Avoid con Control pe Use dry cl	Il ignition sources. Il spills immediately. tact with skin and eyes. rsonal contact by using protective equipment. ean up procedures and avoid generating dust. suitable, labeled container for waste disposal	
Containment	Avoid all I Wear prote Use in a w DO NOT a DO NOT a Avoid con When hand Keep conta Avoid phy Always wa Use good a Empty cor following source.	Place in a suitable, labeled container for waste disposal Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Use good occupational work practice. Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source. Do NOT cut, drill, grind or weld such containers	
PPE	Use person	nal protective equipment	
7. Handling and Stora		ted from light. Store away from oxidizing agent.	

8 Exposure Controls	/ Personal Protection			
8. Exposure Controls Engineering controls	Local exhaust ventile even when particular mutual friction. Exhaust ventilation particulates in the ware of local expressivatory protection (a): particle dust respiratory protection (b): filter respirators (c): fresh-air hoods of Build-up of electross grounding. Powder handling equadditional protection Air contaminants gein turn, determine the	should be designed to prevent accumulation and re-circulation of orkplace. shaust an adverse concentration of the substance in air could occur, on should be considered. Such protection might consist of: pirators, if necessary, combined with an absorption cartridge; with absorption cartridge or canister of the right type; or masks tatic charge on the dust particle, may be prevented by bonding and uipment such as dust collectors, dryers and mills may require a measures such as explosion venting. The results of		
	remove the contami			
PPE	Use personal protect			
9. Physical and Chemi				
Physical State	Solid			
Odour	Not available			
Solubility in Water	Not available			
Specific Gravity pH	Not available Not available			
<u> </u>	Not available			
Boiling Point Melting Point	Not available			
Flash Point	N/A			
Vapor Pressure:	N/A			
Vapor Density:	N/A			
10. Stability and Read	1			
Thermal Decomposition	ı	No data available		
Dangerous Products of		No data available		
		COx, NOx when burned		
Keep container tightly of	closed in a dry well-ve	ntilated place. Store in -20 °C, dry refrigerator.		
11. Toxicological Information				
RTECS Number		N/A		

Toxicity

No information available.

Health Hazards	Although ingestion is not thought to produce harmful
	effects, the material may still be damaging to the
	health of the individual following ingestion, especially
	where pre-existing organ (e.g. liver, kidney)
	damage is evident. In an occupational setting however,
	ingestion of insignificant quantities is not thought to be
	cause for concern.
Potential Hazards	Not available
Carcinogenicity:	No significant acute toxicological data identified
OSHA Permissible Exposure Limit(PEL) Data	N/A
ACGIH Threshold Limit Values (TLV)	N/A
(12)	- "

Reproductive Toxicity:

No information available

12. Ecological Information

No information available.

13. Disposal Considerations

All waste must be handled in accordance with local, state and federal regulations. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

14. Transport Information

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Hazard Class	N/A
Identification Number	N/A
Packing Group	N/A
Proper Shipping Name (DOT)	N/A

15. Regulatory Information

California Proposition 65: N/A

US TSCA (Toxic Substance Control Act): N/A

US CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act: N/A

US SARA Title III (Superfund Amendments and Reauthorization Act: N/A

US Other: N/A

EC EINICS (European Inventory of Existing Commercial Chemical Substances) Number: N/A

EC Risk Statements: N/A

Other Country Regulations: N/A

16. Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed

to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.