1. Product and Company Identification	<u>n</u>
Product Name:	Caspase 3 (Apopain) Substrate 1, chromogenic Ac - DEV D - pNA
Manufacturer/Supplier:	AnaSpec, Inc. <u>www.anaspec.com</u> 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: <u>service@anaspec.com</u> Kaneka Eurogentec SA, Rue du Bois Saint Jean 5 4102 Seraing Belgium Tel. +32-4-3727400 Fax. +32-4-3727500 E-mail info@eurogentec.com
Catalog Number	Kaneka Eurogentec Helpdesk Tel. +32-4-3727665 AS-25263-5
Relevant identified uses of the substance/preparation and uses advised against	For laboratory use only.
Emergency information	Please contact the regional Eurogentec representation in your country or Kaneka Eurogentec S.A. directly (from 8 am to 6 pm)

Safety Data Sheet (SDS)

Emergency Overview: We do recommend handling all chemicals with caution. Use proper protective equipment (PPE) when handling chemicals. To our knowledge, the hazards of this material have not been thoroughly investigated.

GHS Hazard Classification:

GHS Physical Hazards: Not a dangerous substance according to the GHS GHS Health and Environmental Hazards: Not a dangerous substance according to the GHS

GHS Signal Words: None

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. Compositi	<u>on</u>
Ingredients/C	omponents:
Chemical No	ame: Caspase 3 (Apopain) Substrate 1, chromogenic Ac - DEV D - pNA
	Molecular formula: NA Molecular weight: 638.6 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) to 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 comfortably drink. Seek medical advice.
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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Extinguishing media:		Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide
Special firefighting proc	edures:	 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.
Unusual fire and explos	ions hazards:	Emits toxic fumes under fire conditions
6. Accidental Release	Measures	
<u>c</u> :11		
Spill response	Remove a Clean up a Avoid cor Control pe Use dry cl	Il ignition sources. all spills immediately. atact with skin and eyes. ersonal contact by using protective equipment. lean up procedures and avoid generating dust. suitable, labeled container for waste disposal
Spill response Containment	Remove a Clean up a Avoid corr Control pe Use dry cl Place in a Avoid all Wear prot Use in a w DO NOT DO NOT Avoid corr When han Keep cont Avoid phy Always w Use good Empty cor following source.	all spills immediately. atact with skin and eyes. ersonal contact by using protective equipment.

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Engineering controls	Local exhaust ventilation is required where solids are handled as powders or crystals;
0	even when particulates are relatively large, a certain proportion will be powdered by mutual friction.
	Exhaust ventilation should be designed to prevent accumulation and re-circulation of particulates in the workplace.
	If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered. Such protection might consist of:
	(a): particle dust respirators, if necessary, combined with an absorption cartridge;(b): filter respirators with absorption cartridge or canister of the right type;
	(c): fresh-air hoods or masks
	Build-up of electrostatic charge on the dust particle, may be prevented by bonding and grounding.
	Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.
	Air contaminants generated in the workplace possess varying "escape" velocities which,
	in turn, determine the "capture velocities" of fresh circulating air required to efficiently
	remove the contaminant.
PPE	Use personal protective equipment

9. Physical and Chemical Properties

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Physical State	Solid
Odour	Not available
Solubility in Water	Not available
Specific Gravity	Not available
рН	Not available
Boiling Point	Not available
Melting Point	Not available
Flash Point	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A

10. Stability and Reactivity

Thermal Decomposition	No data available
Dangerous Products of Decomposition	No data available
Dangerous Reactions	COx, NOx when burned
Dangerous Reactions	COx, NOx when burned

Keep container tightly closed in a dry well-ventilated place. Store in -20 °C, dry refrigerator.

11. Toxicological Information

RTECS Number	N/A
Toxicity	No information available.

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.
Not available
No significant acute toxicological data identified
N/A
N/A

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

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

AnaSpec Inc. 34801 Campus Drive, Fremont, CA 94555 Toll-Free: 800-452-5530 • Tel: 510-791-9560 • Fax: 510-791-9573 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.