Safety Data Sheet (SDS)

Revision Number: 3.0		Last updated	30 July 2019	
1. Product and Company Identification				
Product Name:		n I Converting Enzyme 2, (ACE - 2) coumarin-4-yl)acetyl - APK(Dnp) - O		
Manufacturer/Supplier:	Kaneka Eur Rue du Boi Tel. +32-4- Fax. +32-4-	ec.com pus Drive A 94555 1-9560 01-9572 ice@anaspec.com rogentec SA, s Saint Jean 5 4102 Seraing Belgium 3727400		
	Kaneka Eur Tel. +32-4-	rogentec Helpdesk 3727665		
Catalog Number	AS-60757			
Relevant identified uses of the substance/preparation and uses advised against	For laborate	ory use only.		
Emergency information		act the regional Eurogentec representa Kaneka Eurogentec S.A. directly (from	•	
2. Hazards Identification				
		dling all chemicals with caution. Use pro . To our knowledge, the hazards of this mater	•	
	-	ance according to the GHS angerous 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. Composition

Ingredients/Components:

Chemical Name: Angiotensin I Converting Enzyme 2, (ACE - 2) Substrate

(7-Methoxycoumarin-4-yl)acetyl - APK(Dnp) - OH

Molecular formula: NA Molecular weight: 696.7

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.			

	ures	Water spray or fog.
Extinguishing media:		Alcohol resistant foam.
		Dry chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
Special firefighting procedures:		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 explosions hazards:		Emits toxic fumes under fire conditions
6. Accidental Release	Measures	
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Spill response		ll ignition sources.
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8. Exposure Controls	/ Personal Protection	<u>1</u>			
Engineering controls		ocal exhaust ventilation is required where solids are handled as powders or crystals;			
2.13.110011113 0011110115		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 w				
	If in spite of local ex	f 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:			
	1 7 1	spirators, if necessary, combined with an absorption cartridge;			
		s with absorption cartridge or canister of the right type;			
	(c): fresh-air hoods or masks				
	Build-up of electros	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			
PPE	remove the contami Use personal protec				
FFE	Ose personal protec	uve equipment			
9. Physical and Chem	ical Properties				
Physical State	Yellow Powder				
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 Read	<u>ctivity</u>				
Thermal Decomposition	\overline{n}	No data available			
Dangerous Products of Decomposition		No data available			
Dangerous Reactions		COx, NOx when burned			
Keep container tightly	closed in a dry well-ve	entilated place. Store in -20 °C, dry refrigerator.			
11. Toxicological Info	rmation				
RTECS Number		N/A			
m		N C			

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

-	
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.