Safety Data Sheet (SDS)

Revision Number: 1.0	Last updated: Mar 10, 20	
1. Identification		
Product identifier used on the label and other means of identification:	Name: 5 - FAM - X, SE; 6 - (Fluorescein - 5 - carboxamido)hexanoic acid, succinimidyl ester; 5 - FAM - X, NHS ester Catalog Number: 81009 Unit Size: 5mg	
Recommended use/restrictions on use:	For research use only. Not intended for food, drug, household, agricultural or cosmetic use.	
Manufacturer/Distributor:	č	
Emergency phone number:	1-800-728-2482	
2. Hazards Identification GHS Hazard Classification:		
GHS Physical Hazards: Skin irritation (Eye irritation (
GHS Health and Environmental Hazards		
GHS Signal Words: IRRITANT		
GHS Hazard Statements: Causes skin irrit: Causes serious e May cause respir	ye irritation. H319	
GHS Hazard Symbol/Pictogram:		



GHS Precautionary Statements:

Avoid breathing dus/fume/gas/mist/vapour/spray .P261 If in EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P305+P351+P338

Description of any hazards not otherwise classified: N/A

Description of any unknown acute toxicity: N/A

HMIS Classification

Health hazard: 2 Flammability: 0 Physical hazards: 1

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name and Synonyms: : 5 - FAM - X, SE; 6 - (Fluorescein - 5 - carboxamido)hexanoic acid, succinimidyl ester; 5 - FAM - X, NHS ester

CAS No.: 148356-00-7

EC No.: N/A

Molecular Formula: $C_{31}H_{26}N_2O_{10}$ Molecular Weight: 586.55

HO COO H
ON MH. A A

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.				

Extinguishing media:		Vater spray or fog.
Extinguishing media.		Alcohol resistant foam.
		Ory chemical powder.
		BCF (where regulations permit).
		Carbon dioxide
b) Unusual fire and explosion hazards		Alert Emergency Responders and tell them location and nature of hazard.
(hazardous combustion products):		Vear breathing apparatus plus protective gloves. revent, 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.
		OO NOT approach containers suspected to be hot.
		Cool fire exposed containers with water spray from a protected location.
		f safe to do so, remove containers from path of fire.
	E	equipment should be thoroughly decontaminated after use.
c) PPE for firefighters and		Alert Emergency Responders and tell them location and nature of hazard.
special firefighting procedures/techniques:		Vear breathing apparatus plus protective gloves.
		revent, 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.
		O NOT approach containers suspected to be hot.
		Cool fire exposed containers with water spray from a protected location.
		f safe to do so, remove containers from path of fire.
		f safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
6. Accidental Release Measu	E	· •
Precautions	E	Equipment should be thoroughly decontaminated after use.
Precautions	res Remove all igr Clean up all sp	Equipment should be thoroughly decontaminated after use. nition sources. nills immediately.
Precautions	Remove all igr Clean up all sp Avoid contact	acquipment should be thoroughly decontaminated after use. Inition sources.
Precautions	Remove all igr Clean up all sp Avoid contact Control person	anition sources. wills immediately. with skin and eyes. all contact by using protective equipment.
Precautions	Remove all igr Clean up all sp Avoid contact Control person Use dry clean	antion sources. with skin and eyes. all contact by using protective equipment. up procedures and avoid generating dust.
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita	anition sources. wills immediately. with skin and eyes. all contact by using protective equipment. up procedures and avoid generating dust. able, labeled container for waste disposal
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean u Place in a suita Avoid all perso	inition sources. wills immediately. with skin and eyes. wal contact by using protective equipment. up procedures and avoid generating dust. uble, labeled container for waste disposal bonal contact, including inhalation.
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita Avoid all person Wear protectiv	inition sources. inition sour
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean u Place in a suita Avoid all perso Wear protectiv Use in a well-v	antion sources. with skin and eyes. and contact by using protective equipment. up procedures and avoid generating dust. able, labeled container for waste disposal contact, including inhalation. re clothing when risk of exposure occurs. ventilated area.
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean u Place in a suita Avoid all perso Wear protectiv Use in a well-v DO NOT enter	anition sources. Inition sour
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita Avoid all person Wear protectiv Use in a well-v DO NOT enter DO NOT allow	anition sources. Inition sour
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Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita Avoid all person Wear protectiv Use in a well-v DO NOT enter DO NOT allow Avoid contact When handling Keep container Avoid physical	nition sources. fills immediately. with skin and eyes. hal contact by using protective equipment. hap procedures and avoid generating dust. hable, labeled container for waste disposal hal contact, including inhalation. he clothing when risk of exposure occurs. he confined spaces until atmosphere has been checked. he material to contact humans, exposed food or food utensils. with incompatible materials. he g, DO NOT eat, drink or smoke. he securely sealed when not in use. he damage to containers.
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita Avoid all person Wear protectiv Use in a well-v DO NOT enter DO NOT allov Avoid contact When handling Keep container Avoid physical Always wash by	nition sources. fills immediately. with skin and eyes. fills contact by using protective equipment. sup procedures and avoid generating dust. suble, labeled container for waste disposal fonal contact, including inhalation. see clothing when risk of exposure occurs. see confined spaces until atmosphere has been checked. we material to contact humans, exposed food or food utensils. with incompatible materials. g, DO NOT eat, drink or smoke. res securely sealed when not in use. I damage to containers. finands with soap and water after handling.
6. Accidental Release Measu Precautions and spill response/procedure Containment materials	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita Avoid all person Wear protectiv Use in a well-v DO NOT enter DO NOT allov Avoid contact When handling Keep container Avoid physical Always wash h Use good occur	inition sources. inition sour
Precautions and spill response/procedure	Remove all igr Clean up all sp Avoid contact Control person Use dry clean up Place in a suita Avoid all person Wear protectiv Use in a well-v DO NOT enter DO NOT allow Avoid contact When handling Keep container Avoid physical Always wash buse good occu Empty container	nition sources. fills immediately. with skin and eyes. fills contact by using protective equipment. sup procedures and avoid generating dust. suble, labeled container for waste disposal fonal contact, including inhalation. see clothing when risk of exposure occurs. see confined spaces until atmosphere has been checked. we material to contact humans, exposed food or food utensils. with incompatible materials. g, DO NOT eat, drink or smoke. see securely sealed when not in use. I damage to containers. finands with soap and water after handling.

7. Handling and Stora		lv.					
Provisions for safe handling Conditions for safe storage		Use personal protective equipment					
		Store at -20°C desiccated and protected from light. Store away from oxidizing agent.					
8. Exposure Controls	/ Persona	al Protection					
		HA Permissible Exposure Limit(PEL) N/A					
	ACGIH	CGIH Threshold Limit Values (TLV) N/A					
Engineering controls	particula Exhaust workpla If in spit protectic (a): parti (b): filte (c): fresh Build-up Powder measure Air cont	cal exhaust ventilation is required where solids are handled as powders or crystals; even when ticulates are relatively large, a certain proportion will be powdered by mutual friction. haust ventilation should be designed to prevent accumulation and re-circulation of particulates in the					
PPE	determine the "capture velocities" of fresh circulating air required to efficiently remove the contaminant. Use personal protective equipment						
9. Physical and Chem a) Appearance (Physical State, color, e	pov	<u>verties</u> wder					
b) Odor	N/A	A					
c) Odor threshold	N/A	A					
d) pH	N/A	N/A					
		Not available					
f) Flash Point	No	Not available					
		Not available					
h) Evaporation Rate:		Not available					
i) Flammability (solid, §	gas) N/A	N/A					
j) Upper/Lower Flammability or Explosive Limits		N/A					
k) Vapor Pressure:	No	Not available					
l) Vapor Density:		Not available					
m) Relative Density		Not available					
n) Solubility(ies)		Not available					
o) Partition Coefficient n-octanol/water		Not available					
p) Auto-Ignition Temperature	N/A	A					

q) Decomposition	Not available			
Temperature	Not available			
r) Viscosity	Not available			
s) Other	N/A			
10. Stability and Reactivi	<u>ty</u>			
a) Reactivity		N/A		
b) Chemical stability		N/A		
c) Possibilities of hazardous Reactions		N/A		
d) Conditions to avoid		N/A		
e) Incompatible materials		N/A		
f) Hazardous decompositio	n products	COx, NOx when burned		
11. Toxicological Informa	ntion_			
a) Likely routes of exposure	?	Absorption through skin or ingestion		
b) Description of the sympt	oms			
c) Effects from short- and long- term exposure	Immediate effects:	May cause irritation and sensitization after prolonged exposure.		
	Delayed effects:	May cause irritation and sensitization after prolonged exposure.		
	Chronic effects:	May cause irritation and sensitization after prolonged exposure.		
d) Toxicity		Not available		
e) Carcinogenicity:		Not available		
12. Ecological Informatio	<u>n</u>			
13. Disposal Consideration	o <u>ns</u>			
	country, state and/ or	al, state and federal regulations. Legislation addressing waste disposal territory. Each user must refer to laws operating in their area. In some areas,		
14. Transport Informatio	<u>n</u>			
UN Number	N/A			
Transport hazard Class	N/A			
Packing Group	N/A			
Proper Shipping Name (DC				
Marine pollutant		N/A		
15. Regulatory Informati	'			
US TSCA (Toxic Substance	· · · · · · · · · · · · · · · · · · ·			
· •		ponse, Compensation, and Liability Act: N/A		
US SARA Title III (Superfu	nd Amendments and Ro	eauthorization Act: N/A		

US Clean Air Act:

Listed under Hazardous Air Pollutants: N/A Listed under Class 1 Ozone Depletors: N/A Listed under Class 2 Ozone Depletors: N/A

US Clean Water Act:

Listed under "Hazardous Substances": N/A Listed under "Priority Pollutants": N/A Listed under "Toxic Pollutants": N/A

US States:

Right-to-Know:

Listed in the following States: N/A California Proposition 65: NO

European/International Regulations:

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

WGK (Water Danger / Protection): N/A Canada – DSL/NDSL: Not Listed

Canada – WHMIS classification: N/A

Canada – Canadian Ingredient Disclosure List: Not Listed

16. Other Information

The above information is believed to be correct but does not purport to be all inclusive. Users of this SDS shall understand it is to be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. Users are granted the right to make unlimited copies of this SDS for internal use only. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product. The date of first preparation or last revision is listed at the top of this SDS.