Safety Data Sheet (SDS)

Revision Number: 1.0	Last updated: Mar 27, 2014
1. Identification	
Product identifier used on the label and other means of identification:	Name: DNP - X acid, SE; 6 - (2,4 - Dinitrophenyl)aminohexanoic acid, succinimidyl ester; DNP - X acid, NHS ester Catalog Number: 81228 Unit Size: 25mg
Recommended use/restrictions on use:	For research use only. Not intended for food, drug, household, agricultural or cosmetic use.
Manufacturer/Distributor:	AnaSpec, Inc. www.anaspec.com 34801 Campus Drive Fremont, CA 94555 Tel: 510-791-9560 Fax: 510-791-9572 Email: service@anaspec.com
Emergency phone number:	1-800-728-2482
exposure to any chemical should be kept i	e in our database regarding the toxic effects of this material for human. However, to a minimum. Skin and eye contact may result in irritation. Maybe harmful if inhaled hygiene practices and wear appropriate protective equipment when handling this
GHS Physical Hazards:	
GHS Health and Environmental Hazards:	
GHS Signal Words: GHS Hazard Statements:	
GHS Hazard Symbol/Pictogram:	
GHS Precautionary Statements:	
	thing dus/fume/gas/mist/vapour/spray .P261 , 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: 0 Flammability: 0 Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

3. Composition / Information on Ingredients

Ingredients/Components:

Chemical Name and Synonyms: DNP - X acid, SE; 6 - (2,4 -

Dinitrophenyl)aminohexanoic acid, succinimidyl ester; DNP - X acid,

NHS ester

CAS No.: 82321-04-8

EC No.: N/A

 $\begin{aligned} & \text{Molecular Formula: } C_{16}H_{18}N_4O_8 \\ & \text{Molecular Weight: } 394.34 \end{aligned}$

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.	

	01 4					
	Observe the pa	•				
			h, then provide liquid slowly and as much as casualty can comfortably drink.			
	Seek medical a					
Skin:	If skin or hair					
		Flush skin and hair with running water (and soap if available).				
	Seek medical a	Seek medical attention in event of irritation.				
Eyes:	If this product	comes in conta	act with the eyes:			
	Wash out imm	ash out immediately with fresh running water.				
			f the eye by keeping eyelids apart and away from eye and moving the eyelids by			
			r and lower lids.			
			a medical attention.			
	r. r.					
5 Ein Ein	4° 3/1					
	ting Measures					
Extinguishing media:			Water spray or fog.			
			Alcohol resistant foam.			
			Dry chemical powder.			
			BCF (where regulations permit).			
			Carbon dioxide			
b) Unusual t	fire and explosion i	hazards	Alert Emergency Responders and tell them location and nature of hazard.			
	combustion product		Wear breathing apparatus plus protective gloves.			
	1	,	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.			
a) DDE for f	irefighters and		Alert Emergency Responders and tell them location and nature of hazard.			
		, 1 ·				
speciai jirejig	ghting procedures/	tecnniques:	Wear breathing apparatus plus protective gloves.			
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6. Accidenta	al Release Measur	<u>res</u>				
Dung		Dam	iquition sources			
Precautions	/ 1		ignition sources.			
ana spili resp	ponse/procedure		spills immediately.			
			act with skin and eyes.			
			sonal contact by using protective equipment.			
			an up procedures and avoid generating dust.			
			uitable, labeled container for waste disposal			
Containment	materials	Avoid all personal contact, including inhalation.				
			ctive clothing when risk of exposure occurs.			
			ll-ventilated area.			
			nter confined spaces until atmosphere has been checked.			
			low material to contact humans, exposed food or food utensils.			
			act with incompatible materials.			
		11,010 00110				

	When handling, DO NOT eat, drin				
	Keep containers securely sealed w				
	Avoid physical damage to contain				
	Always wash hands with soap and				
	Use good occupational work pract				
		didual dust which has the potential to accumulate following in the presence of an appropriate ignition source. such containers			
7. Handling and Stora					
Provisions for safe hand	Use personal protective equipment				
Conditions for safe stor		Store at -20°C desiccated and protected from light. Store away from oxidizing agent.			
8. Exposure Controls	rsonal Protection				
Exposure limits	HA Permissible Exposure Limit(PEL)	N/A			
	GIH Threshold Limit Values (TLV)	N/A			
Engineering controls	ical exhaust ventilation is required where solids are handled as powders or crystals; even when riculates are relatively large, a certain proportion will be powdered by mutual friction. Thaust ventilation should be designed to prevent accumulation and re-circulation of particulates in the orkplace. In spite of local exhaust an adverse concentration of the substance in air could occur, respiratory of otection should be considered. Such protection might consist of: In particle dust respirators, if necessary, combined with an absorption cartridge; In filter respirators with absorption cartridge or canister of the right type; In fresh-air hoods or masks Indulup of electrostatic charge on the dust particle, may be prevented by bonding and grounding. We handling equipment such as dust collectors, dryers and mills may require additional protection reasures such as explosion venting. In contaminants generated in the workplace possess varying "escape" velocities which, in turn, termine the "capture velocities" of fresh circulating air required to efficiently remove the maminant.				
PPE	e personal protective equipment				
9. Physical and Chem	Properties -				
a) Appearance (Physical State, color, e	solid				
b) Odor	N/A				
c) Odor threshold	N/A				
d) pH	N/A				
e) Initial Boiling Point	Not available				
Boiling Range	available				
f) Flash Point	Not available				
g) Melting Point/Freezi. point	Not available				
h) Evaporation Rate:	Not available				
i) Flammability (solid, §	N/A				
j) Upper/Lower	N/A				
Flammability or Explos Limits					

k) Vapor Pressure:	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	N/A			
Temperature	IN/A			
q) Decomposition	Not available			
Temperature				
r) Viscosity	Not available			
s) Other	N/A			
10. Stability and Reactivi	<u>ty</u>			
\ D		laz/a		
a) Reactivity		N/A		
b) Chemical stability		N/A		
c) Possibilities of hazardou	s Reactions	N/A		
d) Conditions to avoid		N/A		
e) Incompatible materials		N/A		
f) Hazardous decompositio	on products	COx, NOx when burned		
11. Toxicological Informa	ation_			
a) Likely routes of exposure	2	Absorption through skin or ingestion		
b) Description of the symptom	oms			
b) Description of the sympto c) Effects from short- and long- term exposure	oms Immediate effects:	May cause irritation and sensitization after prolonged exposure.		
c) Effects from short- and		May cause irritation and sensitization after prolonged exposure. May cause irritation and sensitization after prolonged exposure.		
c) Effects from short- and	Immediate effects:			
c) Effects from short- and	Immediate effects: Delayed effects:	May cause irritation and sensitization after prolonged exposure.		
c) Effects from short- and long- term exposure	Immediate effects: Delayed effects:	May cause irritation and sensitization after prolonged exposure. May cause irritation and sensitization after prolonged exposure.		
c) Effects from short- and long- term exposure d) Toxicity	Immediate effects: Delayed effects: Chronic effects:	May cause irritation and sensitization after prolonged exposure. May cause irritation and sensitization after prolonged exposure. Not available		
c) Effects from short- and long- term exposure d) Toxicity e) Carcinogenicity: 12. Ecological Informatio 13. Disposal Consideratio	Immediate effects: Delayed effects: Chronic effects:	May cause irritation and sensitization after prolonged exposure. May cause irritation and sensitization after prolonged exposure. Not available Not available		
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Marine pollutant N/A

15. Regulatory Information

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 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.