Material Safety Data Sheet (MSDS)

Revision Number: 1.0		Last updated Jan 24, 2013		
1. Product and Company Idea	ntification_			
Product Name:	NBD-X; [6	5-(N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl)		
	amino)hexar	noic acid]		
Manufacturer/Supplier:	AnaSpec, In	c.		
	www.anaspec.com			
	34801 Camp	ous Drive		
	Fremont, CA	A 94555		
	Tel: 510-791-9560			
	Fax: 510-791-9572			
	Email: servi	Email: service@anaspec.com		
Catalog Number	81212	81212		
Unit Size	100mg	100mg		

2. Hazards Identification

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

GHS Hazard Classification:

GHS Physical Hazards

GHS Health and Environmental Hazards

GHS Signal Words: None

GHS Hazard Statements: H303,H313, Maybe harmful if swallowed or in contact with skin.

GHS Precautionary Statements: P302, P340 May be respiratory irritant if inhaled. May cause respiratory tract

irritation.

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

3. Composition

Ingredients/Components:

Chemical Name: NBD-X; [6-(N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl) amino)hexanoic acid]

Molecular formula: C₁₂H₁₄N₄O₅ Molecular weight: 294.27 CAS-No 88235-25-0 EC-No N/A

HN COOH

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: Special firefighting proced Unusual fire and explosion 6. Accidental Release Me Spill response	lures:	Water spray or fog. Alcohol resistant foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide 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
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6. Accidental Release Me	ns hazards:	Emits toxic fumes under fire conditions
Spill response	<u>easures</u>	
		ignition sources.
		spills immediately.
		act with skin and eyes.
		sonal contact by using protective equipment.
		an up procedures and avoid generating dust.
C		uitable, labeled container for waste disposal
Containment		ersonal contact, including inhalation.
		ctive clothing when risk of exposure occurs. Il-ventilated area.
		nter confined spaces until atmosphere has been checked.
		low material to contact humans, exposed food or food utensils.
		act with incompatible materials.
		ling, DO NOT eat, drink or smoke.
		iners securely sealed when not in use.
		ical damage to containers.
		sh hands with soap and water after handling.
		ccupational work practice.
	Empty conta	ainers may contain residual dust which has the potential to accumulate
		ettling. Such dusts may explode in the presence of an appropriate
	ignition sour	
	Do NOT cut	t, drill, grind or weld such containers
PPE	Use persona	al protective equipment
7. Handling and Storage		

Evnosure Controls	/ Parsonal Protection	n
8. Exposure Controls Engineering controls	Local exhaust ventile even when particular mutual friction. Exhaust ventilation particulates in the ward of local experiments of local experiments (a): particle dust respiratory protection (a): filter respirators (c): fresh-air hoods Build-up of electross grounding. Powder handling equadditional protection Air contaminants general mutual particular sections and sections are sections.	lation is required where solids are handled as powders or crystals; ates are relatively large, a certain proportion will be powdered by should be designed to prevent accumulation and re-circulation of workplace. Experimental
	remove the contami	
PPE	Use personal protec	
9. Physical and Chemi	ical Properties	
Physical State	Solid	
Odour	Not available	
Solubility in Water	Not available	
Specific Gravity	Not available	
pH	Not available	
Boiling Point	Not available	
Melting Point Flash Point	Not available N/A	
Vapor Pressure:	N/A N/A	
Vapor Pressure: Vapor Density:	N/A N/A	
vapor Densuy.	1N/ F1	
10. Stability and Read	<u>etivity</u>	
Thermal Decomposition	$\overline{\imath}$	No data available
Dangerous Products of		No data available
Dangerous Reactions	Decemposition	COx, NOx when burned
		entilated place. Containers which are opened must be carefully resealed
11. Toxicological Info	rmation	
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
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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.