

Revision number: 3 Revision date: 11/10/2015

1. IDENTIFICATION

Product name: Product code: NBD-PZ (=4-Nitro-7-piperazino-2,1,3-benzoxadiazole) [for HPLC Labeling] A5554

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

TCI America

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

For laboratory research purposes.

Not for drug or household use.

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Synonyms: Substance NBD-PZ (=4-Nitro-7-piperazino-2,1,3-benzoxadiazole) [for HPLC Labeling] >98.0%(HPLC)(T) 139332-66-4 249.23 C₁₀H₁₁N₅O₃ 4-Nitro-7-piperazinobenzofurazan , 4-Nitro-7-piperazino-2,1,3-benzoxadiazole

4. FIRST-AID MEASURES				
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and			
Skin contact:	take precautions to protect themselves. If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s)			
Eye contact:				
Ingestion:	involved and take precautions to protect themselves. Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.			
Symptoms/effects:				
Acute: Delayed:	Redness. No data available			
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.			
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Dry chemical, CO ₂ , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.			
Specific hazards arising from the chen Hazardous combustion products: Other specific hazards:	nical These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.			
heated. Move containers from fire area if Special protective equipment for fire-fi				
ONLY; it may not be effective in spill situa provide little or no thermal protection.	ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may			
6. ACCIDENTAL RELEASE MEAS	JRES			
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.			
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).			

Emergency procedures:

> (nitrile). Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Environmental precautions:

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Hand protection: Eye protection: Skin and body protection: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Nitrile gloves. Safety glasses. Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder Deep yellow red - Deep red No data available No data available			
Melting point/freezing point:	210°C (dec.) (410°F)	pH:	No data available	
Boiling point/range:	g point/range: No data available Vapor pressure:		No data available	
Decomposition temperature:	position temperature: No data available Vapor density:		No data available	
Relative density:	No data available	Dynamic Viscosity:	No data available	
Kinematic Viscosity:	No data available			
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available	
Flash point:	No data available	Autoignition temperature:	No data available	
Flammability (solid, gas):	No data available	Flammability or explosive limits: Lower: No data avail	able	
		Upper: No data avail	able	

Solubility(ies):

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

NBD-PZ (=4-Nitro-7-piperazino-2,1,3- benzoxadiazole) [for HPLC Labeling] Acute Toxicity: No data available		Page 4 of 5
Skin corrosion/irritation: No data available		
Serious eye damage/irritation: No data available		
Respiratory or skin sensitization: No data available		
Germ cell mutagenicity: No data available		
Carcinogenicity:		
No data available		
IARC: No data available	NTP: No data available OSHA: No data ava	ailable
Reproductive toxicity: No data available		
or dry skin. Eye contact may result in redner Potential Health Effects:		result in redness, pain
Skin and eye contact may result in irritation. Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
Fish: Crustacea:	No data available No data available	
Algae:	No data available	
Persistence and degradability:	No data available	
Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available	
Partition coefficient:	No data available	
n-octanol/water (log P₀w) Soil adsorption (Koc):	No data available	
Henry's Law:	No data available	
constant (PaM³/mol)		
13. DISPOSAL CONSIDERATIONS Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Fed	leral State and Local
	rules and regulations. You may be able to dissolve or mix material with a combustib chemical incinerator equipped with an afterburner and scrubber system. This sectio assistance but does not replace these laws, nor does compliance in accordance wit regulatory compliance according to the law. US EPA guidelines for Identification and Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the water ways, or the soil.	ble solvent and burn in a n is intended to provide th this section ensure d Listing of Hazardous
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	
ΙΑΤΑ	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

CERCLA Hazardous SARA 313: SARA 302:	substance a	nd Reportable Quantity: Not Listed Not Listed			
0/11/10021					
State Regulations					
State Right-to-Knov	v				
Massachusetts New Jersey Pennsylvania		Not Listed			
		Not Listed			
		Not Listed			
California Propositi	on 65:	Not Listed			
Other Information					
NFPA Rating:		HMIS Classification:	HMIS Classification:		
Health:	2	Health:	2		
Flammability:	0	Flammability:	0		
Instability:	0	Physical:	0		
International Invent	ories				
	<u> </u>	D2R: Materials causing other toxic offects (7	Toxic)		
WHMIS hazard class	5.	DZD. IVIALEITAIS CAUSING OLNET LOXIC ETTECLS. (1	D2B: Materials causing other toxic effects. (Toxic)		

Revision date: 11/10/2015

Revision number: 3

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.