

World Precision Instruments, Inc.
Material Safety Data Sheet
Version Date: 03/26/2007

Section 1 - Product and Company Information

Product Name	S-Nitroso-N-Acetyl-D,L-Penicillamine
Product Number:	SNAP
Brand:	WPI Inc.
Company:	WPI Inc.
Address:	175 Sarasota Center Blvd Sarasota, FL 34240
Technical Phone:	941-371-1003
Fax:	941-377-5428
Emergency Phone:	941-371-1003

Section 2 - Composition/Information on Ingredients

Substance Name	CAS #	SARA 13
N-NITROSO-N-ACETYL-PENICILLAMINE	79032-48-7	NO

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritant Irritating to eyes, respiratory system and skin.

Target organ(s) Vascular system

HMIS RATING

HEALTH 1

NFPA RATING

HEALTH 1

Section 4 - First Aid Measures

ORAL EXPOSURE	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
INHALATION EXPOSURE	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
DERMAL EXPOSURE	In case of contact, immediately wash skin with soap and copious amounts of water.
EYE EXPOSURE	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
FIREFIGHTING	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)	Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
METHODS FOR CLEANING UP	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING	
User Exposure	Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
STORAGE	Suitable: Keep tightly closed. Store at -20°C

Section 8 - Exposure Controls / PPE
--

ENGINEERING CONTROLS Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand Compatible chemical-resistant gloves.

Eye Chemical safety goggles.

GENERAL HYGIENE MEASURES Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance Physical Solid
State

Property	Value	At Temperature or Pressure
Molecular Weight	220.2 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	

Flash Point	N/A
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

Section 10 - Stability and Reactivity

STABILITY

Stable	Stable.
Materials to Avoid	Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.
----------------------------------	--

HAZARDOUS POLYMERIZATION

Hazardous Polymerization	Will not occur
--------------------------	----------------

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact	Causes skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	Causes eye irritation.
Inhalation	Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Vascular system. Eyes. Heart. Liver. Kidneys.

SIGNS AND SYMPTOMS OF EXPOSURE

Vasodilator. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

No Data Available

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.
--	--

Section 14 - Transport Information

DOT

Proper Shipping Name	None
Non-Hazardous for Transport	This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport	Non-hazardous for air transport.
---------------------------------	----------------------------------

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

Symbol of Danger	Xi
Indication of Danger	Irritant.
R:	36/37/38
Risk Statements	Irritating to eyes, respiratory system and skin.
S:	26-36
Safety Statements	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger	Irritant.
Risk Statements	Irritating to eyes, respiratory system and skin.

Safety Statements In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Statements Target organ(s): Vascular system.

UNITED STATES REGULATORY INFORMATION

SARA LISTED No

NOTES This product is subject to SARA section 313 reporting requirements.

CANADA REGULATORY INFORMATION

WHMIS Classification This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL No

NDSL No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

* OSHA Compliance

WPI Inc. withholds the right to limit disclosure of concentrations and/or ingredients within the domain of "trade secrets" described in Hazard Communication - 1910.1200 (Standards - 29 CFR). WPI Inc. will also comply to all situations requiring the release of sensitive information stated in those regulations such as a case of emergency.

WARRANTY

The staff of our company believes all information to be correct. Allow this document to be used as a guideline for usage of the product, but WPI Inc. does not consider this document an all inclusive document. Information in this document is publicly available information obtained from credible sources, vendors and/or from WPI Inc. directly. This information is intended only for safety purposes and does not serve as a guarantee for the absolute properties of this product. WPI Inc. is not liable for any damages or injury resulting from contact with or handling of the above product. Refer to terms and conditions of sale for any questions.

© WPI Inc. 2006

<http://www.wpiinc.com>