Section 1 - Product and Company Information

Product Name: 2-PYRIDINEALDOXIME METHIODIDE, 99%
Product Number: P60205
Brand: ALDRICH
Company: Sigma-Aldrich Canada, Ltd
Address: 2149 Winston Park Drive
         Oakville ON L6H 6J8 CA
Technical Phone: 9058299500
Fax: 9058299292
Emergency Phone: 800-424-9300

Section 2 - Composition/Information on Ingredient

Substance Name: 2-PYRIDINEALDOXIME METHIODIDE, 99%
CAS #: 94-63-3
SARA 313: No

Formula: C7H9N2O.I
Synonyms:
- 2-Formyl-1-methylpyridinium iodide oxime *
- 2-Formyl-N-methylpyridinium oxime iodide *
- 2-Hydroxyiminomethyl-1-methylpyridinium iodide *
- 1-Methyl-2-aldoximinopyridinium iodide *
- 1-Methyl-2-hydroxyiminomethylpyridinium iodide *
- N-Methylpyridine-2-aldoxime iodide *
- N-Methylpyridinium-2-aldoxime iodide * PAM
  (Czech) * P-2-AM * 2-PAM * 2-PAM iodide *
- Pralidoxime iodide * Pralidoxime methiodide *
- Protopam iodide * 2-Pyridinaldoxim methojodid
  (German) * Pyridin-2-aldoxin (Czech) * 2-Pyridine
  aldoxime iodomethylate * Pyridine-2-aldoxime
  methiodide * Pyridine-2-aldoxime methyl iodide *
  Pyridinium-2-aldoxime N-methyliodide * NSC-7760

RTECS Number: UU4375000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful.
Harmful if swallowed.
Target organ(s): Nerves.

HMIS RATING
HEALTH: 1

For additional information on toxicity, please refer to Section 11.

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 skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

EYE EXPOSURE
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

FLASH POINT
N/A

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A

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 TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, 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 2-8°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.

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Section 9 - Physical/Chemical Properties

**Appearance**

Physical State: Solid

**Property** | **Value** | **At Temperature or Pressure**
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Molecular Weight | 264.07 AMU | 
pH | N/A | 
BP/BP Range | N/A | 
MP/MP Range | 220 °C | 
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 | 

N/A = not available

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Section 10 - Stability and Reactivity

**STABILITY**

Stable: Stable.

Materials to Avoid: Strong oxidizing agents, Strong bases, Acid chlorides, Acid anhydrides.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen iodide.

**HAZARDOUS POLYMERIZATION**

Hazardous Polymerization: Will not occur

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Section 11 - Toxicological Information

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ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)
Nerves.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Intraperitoneal
Rat
305 MG/KG
LD50

Intravenous
Rat
178 MG/KG
LD50

Intramuscular
Rat
249 MG/KG
LD50

Oral
Mouse
1500 mg/kg
LD50

Intraperitoneal
Mouse
136 MG/KG
LD50
Remarks: Lungs, Thorax, or Respiration: Other changes.

Subcutaneous
Mouse
140 MG/KG
LD50

Intravenous
Mouse
145 MG/KG
LD50

Intramuscular
Mouse
240 MG/KG
LD50

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: Xn
Indication of Danger: Harmful.
R: 22
Risk Statements: Harmful if swallowed.
S: 36
Safety Statements: Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Harmful.
Risk Statements: Harmful if swallowed.
Safety Statements: Wear suitable protective clothing.
US Statements: Target organ(s): Nerves.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No

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.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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