

1 - Product and Company Information

ProductName PYRIDINE-2-ALDOXIME METHYL METHANESULFONATE

2 - Hazards Identification

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
2-PYRIDINEALDOXIME METHYL METHANE-SULFONATE, 95%	154-97-2	205-839-8	None

Formula C7H9N2O.CH3O3S
Molecular Weight 232.26 AMU
Synonyms Contrathion * 2-Formyl-N-methylpyridinium oxime methanesulfonat * 2-Formyl-1-methylpyridinium methanesulfonate oxim * 2-Hydroxyiminomethyl-N-methylpyridinium methanesulphonate * N-Methylpyridinium-2-aldoxime methanesulphonate * 1-Methylpyridinium-2-aldoxime methanesulfonate * N-Methylpyridinium methane sulfonate 2-aldoxime * 2-Pam methanesulfonate * Pralidoxime mesylate * Pralidoxime methosulfate * Protopam methanesulfonate * P2S * Pyridinium, 2-aldoxime, N-methyl methanesulphonat * Pyridinium, 2-((hydroxyimino)methyl)-1-methyl-, methanesulfonate (salt) (9CI)

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

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

Call a physician.

AFTER EYE CONTACT

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.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear protective equipment.

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.

7 - Handling and Storage

STORAGE

Store at 2-8°C

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other

protective clothing.

9 - Physical and Chemical Properties

pH N/A
BP/BP Range N/A
MP/MP Range 154.0 - 156.0 °C
Flash Point N/A
Flammability N/A
Autoignition Temp N/A
Oxidizing Properties N/A
Explosive Properties N/A
Explosion Limits N/A
Vapor Pressure N/A
Partition Coefficient N/A

Viscosity N/A
Vapor Density N/A
Saturated Vapor Conc. N/A
Evaporation Rate N/A
Bulk Density N/A
Decomposition Temp. N/A
Solvent Content N/A
Water Content N/A
Surface Tension N/A
Conductivity N/A
Miscellaneous Data N/A
Solubility N/A

10 - Stability and Reactivity

STABILITY

Stable: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS

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

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: UU4570000

ACUTE TOXICITY

LD50
Oral

Rat

7000 mg/kg

LD50
Intraperitoneal

Rat

262 MG/KG

Remarks: Lungs, Thorax, or Respiration:Dyspnea.

Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Tremor.

LD50
Subcutaneous

Rat

332 MG/KG

Remarks: Lungs, Thorax, or Respiration:Dyspnea.

Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Tremor.

LD50
Intravenous

Rat

109 MG/KG

Remarks: Lungs, Thorax, or Respiration:Dyspnea.

Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Tremor.

LD50
Oral

Mouse

3700 mg/kg

LD50
Intraperitoneal

Mouse

132 MG/KG

LD50
Subcutaneous

Mouse

165 MG/KG

Remarks: Lungs, Thorax, or Respiration:Dyspnea.

Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Tremor.

LD50
Intravenous

Mouse

118 MG/KG

LD50
Intramuscular

Monkey

356 MG/KG

Remarks: Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea.

LD50
Intravenous

Rabbit

118 MG/KG

Remarks: Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Muscle weakness. Lungs, Thorax, or

Respiration:Cyanosis.

LD50
Intramuscular

Rabbit

258 MG/KG

Remarks: Behavioral:Convulsions or effect on seizure threshold.

Behavioral:Muscle weakness. Lungs, Thorax, or

Respiration:Cyanosis.

ROUTE OF EXPOSURE

Multiple Routes: May cause irritation. May be harmful by

inhalation, ingestion, or skin absorption.

CONDITIONS AGGRAVATED BY EXPOSURE

The toxicological properties have not been thoroughly

investigated.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

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.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2

Self-Classification

16 - Other Information

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

LookChem™
Look for Chemicals

www.lookchem.com

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. Lookchem 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.