

## 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<br>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  
methanesulfonate \* 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  
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

## 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

### 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