

# POCH Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH). Creation date / last update: 2003-03-05 / 2004-08-18

## 1. Identification of the substance/preparation and of the company/undertaking

### **MERCURY(II) OXYCYANIDE**

Catalogue Numbers: -M00015082;

Use of the substance / preparation: reagent for analysis or synthesis

POCH SA

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## 2. Hazard identification

*Extreme risk of explosion by shock, friction, fire or other sources of ignition. Danger of cumulative effects. Toxic by inhalation, in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

## 3. Composition/information on ingredients

CAS-No.: 1335-31-5

Molecular mass: 469,22

Molecular formula:  $C_2Hg_2N_2O$

WE Number: 215-629-8

EC-Index No.: 080-006-00-8

## 4. First aid measures

After eye contact: *rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.*

After skin contact: *wash off with plenty of water. Take off contaminated clothing. Call in physician if necessary.*

After swallowing: *if victim is still conscious, make him drink plenty of water. Induce vomiting. Administer activated charcoal (20- 40g in 10% slurry). Immediately call in physician.*

After inhalation: *fresh air. Summon doctor immediately.*

## 5. Fire-fighting measures

Suitable extinguishing media: *CO<sub>2</sub>, foam, water, powder*

Special risk: *development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: sulfur oxides, nitrogen oxides. Risk of explosion in elevated temperature.*

Special protective equipment for fire fighting:

Other information:

Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance.

Contain escaping vapours with water.

## 6. Accidental release measures

*Take up dry. Forward for disposal. Clean up affected area. Avoid substance contact. Avoid generation of dusts, do not inhale dusts. Do not allow to enter sewerage system.*

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### 7. Handling and storage

Handling: *Use with adequate ventilation. Use of the basic principles of Industrial Hygiene. Use according to good industry practice. Work under hood. Do not inhale substance. Do not empty into sewerage system. Use protective equipment according to p.8. Avoid skin contact.*

Storage: *tightly closed. Dry well-ventilated place. Unika uderzania. . Accessible only for authorized persons.*

### 8. Exposure controls/personal protection

Specific control parameter: *HCN salts as HCN - max. workplace conc.: 0,5 mg/m<sup>3</sup>, mercury salts as Hg - max. workplace conc.: 0,05 mg/m<sup>3</sup>, peak limit: 0,15 mg/m<sup>3</sup>.*

*Provide exhaust ventilation. Ensure the eye wash station and safety showers. Protective equipment should be selected for the working place, depending on concentration and quantity of the hazardous product handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.*

Personal protective equipment:

respiratory protection: *required when dusts are generated - respiratory protection*

eye protection: *required - safety goggles.*

hand protection: *required - protective clothing.*

body protection: *required - protective clothing.*

industrial hygiene: *immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood. Do not inhale substance.*

### 9. Physical and chemical properties

Form: *solid*

Colour: *white to gray*

Odour: *weak - characteristic*

pH value: *not available*

Melting point: *not available*

Boiling point: *not applicable*

Autoignition temperature: *not available*

Flash point: *not available*

Explosion limit: *not available*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *2\*10<sup>-3</sup> mmHg (25°C)*

Density: *4,4 g/cm<sup>3</sup> (20°C)*

Bulk density: *not available*

Solubility:

in water: *slightly soluble*

in organic solvents: *not available*

log P(w/o):

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### 10. Stability and reactivity

Conditions to be avoided: *friction, strike, temperature*

Substances to be avoided: *strong oxidizing agents, acids.*

Hazardous decomposition products: *no information available*

Other information: *no further informations*

### 11. Toxicological information

Toxicological information: *Quantitative data on the high toxicity of this product are not available. For mercury cyanide: LD50 (oral rat): 26 mg/kg.*

Other information: *after skin contact: severe irritations, risk of skin sensitization, danger of skin absorption. Mercury compounds have a cytotoxic and protoplasmatoxic effect. Intoxication symptoms: acute: contact with eyes causes severa lesions. Swallowing and inhalation of dusts damages mucous membranes of gastrointestinal and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhoea, intestinal burns, glottal oedema, aspiration pneumonia); drop in blood pressure, cardiac dysrhythmia, circulatory collapse, and renal failure: chronic: inflammation of the mouth with loss of teeth and mercurial line. The principal sings manifest themselves in the CNS (impaired speech, vision, hearing and sensitivity, loss of memory, irritability, hallucinations, delirium inter alia).*

### 12. Ecological information

*Toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Fish toxicity: trout RC50: 1,5-0,9 mg/l/96 h. Do not allow to enter waters, waste water or soil!*

### 13. Disposal considerations

*POCH product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.*

### 14. Transport information

ADR Class and package group: *6.1 , II*

UN Number: *1642*

Name (acc. to UN): *mercury oxycyanide*

## MERCURY(II) OXYCYANIDE

### 15. Regulatory information

Labelling according to EC Directives.

Symbol: T, N, E; Explosive. Toxic.

R-phrases: 3-23/24/25-33-50/53; *Extreme risk of explosion by shock, friction, fire or other sources of ignition. Danger of cumulative effects.*

*Toxic by inhalation, in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

S-phrases: 28-35-45-60-61; *After contact with skin, wash immediately with plenty of water. This material and its container must be disposed of in a safe way. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions / Safety data sheets.*

EC label.

### 16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge

