# POTASSIUM FERRICYANIDE

**1132**
October 2002

**CAS No: 13746-66-2**
RTECS No: LJ8225000

Tripotassium hexacyanoferrate (-3)
Potassium cyanoferrate
Potassium ferricyanate
Iron potassium cyanide
$C_6FeK_3N_6$ / $K_3Fe(CN)_6$
Molecular mass: 329.25

| TYPES OF HAZARD/ EXPOSURE | ACUTE HAZARDS/SYMPTOMS | PREVENTION | FIRST AID/FIRE FIGHTING |
|---|---|---|---|
| **FIRE** | Not combustible. Gives off irritating or toxic fumes (or gases) in a fire. | | In case of fire in the surroundings: use appropriate extinguishing media. |
| **EXPLOSION** | | | |
| **EXPOSURE** | | | |
| **Inhalation** | Cough. Sore throat. | Avoid inhalation of dust. | Fresh air, rest. |
| **Skin** | Redness. Pain. | Protective gloves. | Remove contaminated clothes. Rinse skin with plenty of water or shower. |
| **Eyes** | Redness. Pain. | Safety spectacles. | First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor. |
| **Ingestion** | Abdominal pain. Nausea. Vomiting. | Do not eat, drink, or smoke during work. | Rinse mouth. Give plenty of water to drink. |

| SPILLAGE DISPOSAL | PACKAGING & LABELLING |
|---|---|
| Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles.) | |

| EMERGENCY RESPONSE | STORAGE |
|---|---|
| | Separated from acids. Dry. |

**IPCS**
International Programme on Chemical Safety

Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission


**SEE IMPORTANT INFORMATION ON THE BACK.**

## IMPORTANT DATA

**Physical State; Appearance**
RED CRYSTALLINE POWDER

**Chemical dangers**
The substance decomposes on heating producing toxic gases including hydrogen cyanide. Reacts with acids, to produce cyanides, causing toxic hazard.

**Occupational exposure limits**
TLV not established.

**Routes of exposure**
The substance can be absorbed into the body by inhalation and by ingestion.

**Inhalation risk**
A nuisance-causing concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

**Effects of short-term exposure**
The substance is mildly irritating to the eyes, the skin and the respiratory tract.

## PHYSICAL PROPERTIES

Density: 1.89 g/cm$^3$

Solubility in water, g/100 ml: 46

## ENVIRONMENTAL DATA

This substance may be hazardous in the environment; special attention should be given to aquatic organisms.

## NOTES

Temperature of decomposition unknown in literature.
Health effects of exposure to the substance have not been investigated adequately.

## ADDITIONAL INFORMATION