

## **SECTION1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Product code : POTASSIO FERRICIANURO

Trades code : 100240

Chemical Name: tripotassium hexacyanoferrate CAS: 13746-66-2 - EC No: 237-323-3

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Photographic Process

Sectors of use:

Professional use[SU22]

Product category:

Photochemicals

Process categories:

Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact)[PROC5]

Uses advised against

Do not use for purposes other than those listed

### **1.3. Details of the supplier of the safety data sheet**

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### **1.4. Emergency telephone number**

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## **SECTION2. Hazards identification**

### **2.1. Classification of the substance or mixture**

CAS 13746-66-2 EINECS 237-323-3

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS07

Hazard Class and Category Code(s):

Acute Tox. 4

Hazard statement Code(s):

H332 - Harmful if inhaled.

Harmful product: do not inhale

### **2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS07 - Warning

Hazard statement Code(s):

H332 - Harmful if inhaled.

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention



P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.

Response

P312 - Call a POISON CENTER/doctor/... if you feel unwell.

Contains:

tripotassium hexacyanoferrate

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII  
No information on other hazards

## SECTION3. Composition/information on ingredients

### 3.1 Substances

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
tripotassium hexacyanoferrate	100%	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332		13746-66-2	237-323-3	

### 3.2 Mixtures

Irrilevant

## SECTION4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated room.  
CALL A PHYSICIAN.

If breathing has stopped, give artificial respiration.

Direct contact with skin (of the pure product).:

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product).:

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Give liquid paraffin mineral product, do not give milk or animal / vegetal fat in general.

Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

None known

### 4.3. Indication of any immediate medical attention and special treatment needed

Call a POISON CENTER/doctor/... if you feel unwell.

## SECTION5. Firefighting measures

### 5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

**5.2. Special hazards arising from the substance or mixture**

No data available.

**5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

**SECTION6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

**6.2. Environmental precautions**

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

**6.3. Methods and material for containment and cleaning up**

6.3.1 For containment:

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

**6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

**SECTION7. Handling and storage****7.1. Precautions for safe handling**

In residential areas do not use on large surfaces.

At work do not eat or drink.

See also paragraph 8 below.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and `direct exposure of sunlight.

**7.3. Specific end use(s)**

Professional use:

Photographic and cinematographic treatment

**SECTION8. Exposure controls/personal protection****8.1. Control parameters**

Related to contained substances:

tripotassium hexacyanoferrate:  
 Potassium Ferricyanide CAS: 13746-66-2  
 Value: 0.5 mg/m<sup>3</sup>

## 8.2. Exposure controls

Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

Wear mask

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Use adequate protective respiratory equipment (EN 14387:2008)

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.



## SECTION9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Powder	
Odour	undefined	
Odour threshold	undefined	
pH	not determined	pH METRO
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	Not determined	
Flash point	non flammable	ASTM D92
Evaporation rate	Not determined	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	undefined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	1.89 g/cm <sup>3</sup>	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

**9.2. Other information**

No data available.

**SECTION 10. Stability and reactivity****10.1. Reactivity**

Related to contained substances:  
tripotassium hexacyanoferrate:  
There is no specific information on this product

**10.2. Chemical stability**

stable product and storage conditions & use recommended

**10.3. Possibility of hazardous reactions**

Possibility of reaction with acids

**10.4. Conditions to avoid**

Related to contained substances:  
tripotassium hexacyanoferrate:  
Protect from light

**10.5. Incompatible materials**

Acids and strong oxidizing agents. Nitrates

**10.6. Hazardous decomposition products**

Cianitrico acid (HCN)

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE oral = ∞

ATE dermal = ∞

ATE inhal = 1,5 mg/l/4 h

- (a) acute toxicity: Harmful product: do not inhale
- (b) skin corrosion/irritation based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

POTASSIO FERRICIANURO:

LD50 (rat) Oral (mg/kg body weight) = 2970

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2970

Related to contained substances:

tripotassium hexacyanoferrate:

The product can have adverse effects on human health

LD50 (rat) Oral (mg/kg body weight) = 2970

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2970

**SECTION12. Ecological information****12.1. Toxicity**

Related to contained substances:

tripotassium hexacyanoferrate:

There is no specific information on this product.

Use according to good working practices to avoid pollution into the environment.

**12.2. Persistence and degradability**

There is no specific information on this product.

**12.3. Bioaccumulative potential**

There is no specific information on this product.

**12.4. Mobility in soil**

There is no specific information on this product.

**12.5. Results of PBT and vPvB assessment**

This product does not, or does not contain a substance called PBT or vPvB

**12.6. Other adverse effects**

There is no specific information on this product.

**SECTION13. Disposal considerations****13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

**SECTION14. Transport information****14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

**14.2. UN proper shipping name**

None

**14.3. Transport hazard class(es)**

None

**14.4. Packing group**

None

**14.5. Environmental hazards**

None

**14.6. Special precautions for user**

No data available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

It is not intended to carry bulk

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Legislative Decree. 02/03/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14/03/2003 n. 65 (Classification, packaging and labeling of dangerous substances). Legislative Decree. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. 26/02/2004 Work (Exposure Limits Professional); D.M. 03/04/2007 (Implementation of Directive n. 2006/8 / EC). Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) 790 / 2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

**SECTION 16. Other information****16.1. Other information**

Points modified compared to previous release: 2.3. Other hazards, 10.4. Conditions to avoid, 12.5. Results of PBT and vPvB assessment

Description of the hazard statements exposed to point 3

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H332 = Harmful if inhaled.

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

Regolamento 529/2012 and subsequent updates

This data sheet cancels and replaces any previous edition.