According to Regulation n. 1907/2006 and Regulation 878/2020 DOUBLE SALT AU-K 68% - 68,2% - 68,3%

Potassium dicyanoaurate (Au 68% - 68,2% -68,3%)

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Chemical denomination Potassium dicyanoaurate

C.A.S. Registry Number 13967-50-5 EC number 237-748-4 Molecolar Weight 288,0986 Formula bruta $[KAu(CN)_2]$ Trade Name Product code Double salt AU-K 68% 01 - 1001 (COC)

Double salt AU-K 68,2% 172

Double salt AU-K 68,3% 167 – 1167 (COC)

REACH Identification number 01-2120130777-52-XXXX

1.2 Substance or Mixture Identified pertinent uses and suggested uses:

Production, formulation, electroforming, electroplating and surface treatment of metals. Industrial use.

Environmental release category

Environmental release category			
ERC1	MANUFACTURE OF THE SUBSTANCE		
Process cate	egory		
PROC2	Production or refining of chemicals in a closed or continuous process, with occasional controlled exposure or processes with equivalent containment conditions		
PROC3	Manufacture or formulation of chemicals in closed batch processes, with occasional controlled exposure or processes with equivalent containment conditions		
PROC4	Production of chemicals with the possibility of exposure		
PROC8a	Transfer of substance or preparation (loading / unloading) to non-dedicated facilities		
PROC8b	Transfer of the substance or a preparation (loading / unloading) in dedicated facilities		
PROC9	Transfer of substance or preparation into small containers (dedicated filling line including weighing)		
PROC26	Handling of inorganic substances at room temperature		
ERC2	FORMULATION IN A MIXTURE		
PROC4	Production of chemicals with the possibility of exposure		
PROC5	Mixing or blending in batch process		
PROC8a	Transfer of substance or preparation (loading/unloading) to non-dedicated facilities		
PROC8b	Transfer of the substance or a preparation (loading/unloading) in dedicated facilities		
PROC9	Transfer of substance or preparation into small containers (dedicated filling line including weighing)		

Products categories

PROC26

PC14 Metal surface treatment products, including electroplating and electroplating products

Handling of inorganic substances at room temperature

Environmental release category

ERC5	USE IN INDUSTRIAL PROPCESSES THAT LEAD TO INCLUSION WITHIN OR ABOVE AN ARTICLE			
PROC1	Production or refining of chemicals in a closed process, without occasional controlled exposure or processes with equivalent containment conditions			
PROC2	Production or refining of chemicals in a closed or continuous process, with occasional controlled exposure or processes with equivalent containment conditions			
PROC3	Manufacture or formulation of chemicals in closed batch processes, with occasional controlled exposure or processes with equivalent containment conditions			
PROC4	Production of chemicals with the possibility of exposure			
PROC5	Mixing in batch processes			
PROC7	Industrial spray application			
PROC8a	Transfer of substance or preparation (loading / unloading) to non-dedicated facilities			
PROC8b	Transfer of the substance or a preparation (loading / unloading) in dedicated facilities			
PROC9	Transfer of substance or preparation into small containers (dedicated filling line including weighing)			

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PROC13 Treatment of articles by dipping PROC15 Use as a laboratory reagent

PROC26 Handling of inorganic substances at room temperature

Product category

PC14 Metal surface treatment products, including electroplating and electroplating products

Use industry

SU16 Computers production, electronic and optical products, electrical equipment production

Environmental release category

ERC8c USE DISPERSED IN CLOSED ENVIRONMENTS THAT LEADS TO INCLUSION ON OR INTO AN ITEM

PROC4 Production of chemicals with the possibility of exposure

PROC8b Transfer of the substance or a preparation (loading / unloading) in dedicated facilities

PROC9 Transfer of substance or preparation into small containers (dedicated filling line including weighing)

PROC13 Treatment of articles by immersion

PROC26 Handling of inorganic substances at room temperature

Product category

PC14 Metal surface treatment products, including electroplating and electroplating products

Use sector:

SU16 Production of computers, electronic and optical products, electrical equipment

1.3 Safety data sheet supplier information

Name FAGGI ENRICO S.P.A.

Address Via Majorana, 101/103 50019 Sesto

Fiorentino FI

Telephone number 055311861 Fax number 055311791

Persona compente responsabile della

scheda dati di sicurezza lorenzo.magaldi@faggi.it

1.4 Emergency Telephone Number: Ph. 0557947819 Florence Poison center

2. HAZARDS IDENTIFICATION

2.1 Mixture classification

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

Hazard Classes	Categories Codes	Hazard codes
Met. Corr.	1	H290 May be corrosive to metals.
Acute toxicity -Oral	2	H300 Fatal if swallowed.
Skin irrit.	2	H315 Causes skin irritation.
Skin sens.	1	H317 May cause an allergic skin reaction.
Eye damage	1	H318 Causes serious eye damage
Acute toxicity	2	H330 Fatal if inhaled
Aquatic acute	1	H400 Very toxic to aquatic life.
Aquatic chronic	1	H410 Very toxic to aquatic life with long lasting effects

2.2 Label elements

Pictograms:







According to Regulation n. 1907/2006 and Regulation 878/2020 DOUBLE SALT AU-K 68% - 68,2% - 68,3%

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Warnings	DANGER		
Hazard statements	H290	May be corrosive to metals	
	H300	Fatal if swallowed.	
	H315	Causes skin irritation	
	H317	May cause an allergic skin reaction	
	H318	Cause serious eye damage	
	H330	Fatal if inhaled	
	H410	Very toxic to aquatic life with long lasting effects	
Additional hazard	EUH032	Contact with acids liberates very toxic gas.	
statements / identification			
elements (EU)			
Safety advices	P234	Keep only in original packaging.	
	P273	Avoid release to the environment.	
	P280	Wear protective gloves/protective clothing/eye protection/face protection.	
	P302+P352	IF ON SKIN: Wash with plenty of water	
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor	
	P304+P340	IF INHALED: transport the injured person to fresh air and keep him at rest in a position that favors breathing	
Other dangers	Under the action cyanide is releas air can form exp	de can cause all levels of poisoning. In of acids (including carbon dioxide) hydrogen ed, which is flammable and together with the losive gas mixtures. ith acids, air humidity, water.	

3. **COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Substance

2.3

Potassium dicyanoaurate

CAS Number 13967-50-5
CE Number 237-748-4
M factor acute toxicity 1
M factor chronic toxicity 1

4. First aid measures

4.1 First aid measures description

General advices Ta

Take yourself out of the dangerous air. Immediate medical attention is required. Show the safety data sheet to healthcare personnel. Bring the injured person to fresh air and keep him at rest in a position that allows easy breathing. Undo tight clothing such as collars, ties, belts. In case of difficulty in breathing or respiratory arrest, give artificial respiration or supply oxygen by

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trained personnel. Don't leave the victim unsupervised. The following recommendations on first aid and the necessary therapies should be made available to all first aid workers and doctors who may be called to provide help before the work with cyanide or hydrocyanic acid begins. Adverse effects may also include the following: headache, dizziness, lightheadedness, nausea, vomiting, fits, fainting, shortness of breath or difficulty in breathing, cardiac arrest or heart attack. Remove all contaminated clothing immediately. If breathing is difficult, serve oxygen. If victim is not breathing, provide artificial respiration.

Do not practice mouth-to-mouth or mouth-to-nose resuscitation. Use the AMBU bag or respirator. Keep the victim warm and at rest. If unconscious place him in the safety position and immediately provide medical attention.

Protection of first aid personnel

No action should be taken involving personal risk or without suitable training. If toxic fumes are suspected to still be present, rescuers should wear an appropriate mask or isolated breathing apparatus. It may be dangerous for rescuers to practice mouth-to-mouth resuscitation. Wash contaminated clothes with plenty of water before removing them or putting on gloves.

Inhalation

Call a physician immediately. (KEY WORD. CYANIDE / HYDRAULIC ACID POISONING).

If the victim is unconscious, place him in the safety position and call a doctor immediately.

If the decomposition products caused by a fire are inhaled, symptoms may be delayed.

Ingestion

Clean mouth with water and drink plenty of water.

Call a physician immediately. (KEY WORD. CYANIDE / HYDRAULIC ACID POISONING). Keep the respiratory tract clear. DO NOT INDUCE VOMITING. Rinse your mouth with water. Do not give anything by mouth to an unconscious person. Immediately take the injured person to the hospital.

Skin contact

Immediately take the injured person to the hospital. Wash contaminated clothing before re-use. Immediately remove the substance from the skin. If the substance is on the skin, wash it repeatedly with water. Flush contaminated skin with large amounts of water.

Reccomendations:

Need to see a doctor immediately

YES

Possibility of delayed effects following exposure

YES

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> Move the exposed individual from the place of exposure to the open air

> Remove clothing and shoes of the exposed individual
>
> YES

How to handle contaminated clothing
 With gloves

YES

For those providing first aid, wear PPE

4.2 Most important symptoms and effects, both acute and delayed

Possible signs of poisoning: It seems appropriate to differentiate between two stages:

1. Slight poisoning

2. Severe poisoning

The following symptoms do not provide reliable information about prognosis.

Symptoms of central nervous system

Early stage: headache, dizziness, drowsiness, nausea.

advanced stage: convulsions, coma.

pulmonary symptoms

Early stage: dyspnea, tachypnea.

advanced stage: hypoventilation, Cheyne-Stokes respiration, apnea

cardiovascular symptoms

Early stage: Hypertonia, arrhythmia sinus node, AV nodal arrhythmia, bradycardia.

advanced stage: tachycardia, complex arrhythmias, cardiac arrest.

skin symptoms

Early stage: Colourful red. Advanced stage: cyanosis.

Effect on the metabolism: to pH 7.1 by lactate acidosis and lactate levels up to 17 mm / liter

have been described.

4.3 Indication of any need to immediately consult a doctor and special treatments

Therapy: Prevent reabsorption and ensure vital functions, strictly adhering to self-protection measures. Rapid antidote therapy can be life-saving and takes precedence over elimination of poison.

Therapy: Slight intoxication. 100% artificial respiration with oxygen. Based on the symptoms and clinical picture, detailed examinations of the reports, symptomatic treatment for pulmonary edema prophylaxis and diagnostics (lung radiography) are required.

Antidote therapy: for example, administration of sodium thiosulfate 12.5 g - 100-500 mg / kg intravenously, according to the clinical findings and symptoms. Attention! The dosage applies to an adult of 70 kg. Any person poisoned by cyanide must be monitored continuously for many hours even if the patient feels well. This is to ensure that no new symptoms or previous ones remain.

Therapy: severe intoxication.

Artificial respiration with oxygen. Immediate administration of antidote.

The medicines listed below can be used for antidote therapy:

Complex trainer

1. Administer intravenous hydroxocobalamin (Cyanokit®) 5g (70 mg / kg for adults) over an infusion period of 20-30 minutes. This dosage can be repeated, according to the severity of the intoxication. The infusion period for repeated administration is 30 minutes up to 2 hours. Hydroxocobalamin can only be administered intravenously.

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- 2. Dicobalt edetate (Kelocyanor®) 300 mg (1 vial) for adults in 1-3 minutes, intravenously. Methemoglobin trainer:
- 1. 4-dimethylaminophenol, (4-Dmap) sodium thiosulfate: the antidote is administered in the following sequence:

to. 4-DMAP, 250 mg (3-4 mg for each kg of body weight) in 5 ml IV (vial) followed by b. sodium thiosulfate 12.5 g in 50 ml IV- infusion.

If the antidote has been administered and the diagnosis is not that of cyanide intoxication and you have methemoglobin> 30%, you can administer toluidine blue or methylene blue, to suspend the effect of the cyanide antidote. WARNING: this should be done with the utmost caution and only in the hospital, due to the renewed emission of cyanide in the blood.

5. FIRE FIGHTING MEASURES

5.1 Fire fighting media

Suitable extinguishing media alkaline fire fighting powder.

Unsuitable extinguishing media water, carbon dioxide (CO2), foam, acid fire fighting

material, acid fire fighting powders.

5.2 Special hazards arising from the substance or mixture Special recommendations for firefighters

5.3 General information Prevent the water used to extinguish the fire from flowing into the

sewer, groundwater or surface water. Collect the water used during the extinguishing of the fire separately. This must not be discharged into the sewers. Fire residues and contaminated water must be

disposed of in accordance with applicable laws.

Equiment If necessary, wear isolated breathing apparatus for firefighting.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and procedures in case of emergency

6.1.1. For non-emergency personnel

Move away from the contaminated area and keep upwind.

6.1.2. For emergency responders

Wear protective equipment. avoid the formation of dust. avoid breathing dust.

Semi-face masks with ABEK2P3 filters compliant with the EN14387: 2004 standard Chemical risk gloves compliant with all EN420 and EN374 standards Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001 Complete clothing compliant with the UNI EN 13034: 2006 type 6 standard

6.2 Environmental precautions:

Do not send the product to the following compartments:

- ground
- ground water
- sewer

In case of pollution of rivers, lakes or sewers, inform the competent authorities in accordance with local laws.

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6.3 Methods and materials for containment and cleaning up

6.3.1. Recommendations on how to contain a spill

Close (if possible) or cover the drains

6.3.2. Recommendations on how to clean up a spill

1. <u>Solid substance:</u>

Collect mechanically. Collect in suitable containers. The collected material must be reused or disposed of according to regulations. To absorb the spilled substance, it is recommended to use an approved industrial vacuum cleaner.

2. Solution:

Absorb with liquid-retaining material, for example: inert absorbent medium, diatomaceous earth or acid absorbent. Collect mechanically. Collect in suitable containers. The collected material must be reused or disposed of according to regulations.

6.3.3. Other informations:

The substance, the packaging, the fire extinguishing water and the remains of any fire must be sent to an appropriate disposal facility, in compliance with waste regulations.

6.4 Reference to other sections:

Refer to steps 8 and 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

7.1.1. Recommendations that allow the substance or mixture to be handled safely, such as containment and prevention measures for fires and for the formation of aerosols and dusts

Avoid the formation of dust and keep away from incompatible materials (acids, acid salts, aluminum). Do not breathe dust and vapors. Avoid contact with eyes and skin. Use only under a suction hood. Keep fire extinguishers and containment means such as inert absorbent media, diatomaceous earth or absorbent for acids nearby. Provide for the disposal of waste water in accordance with local and national laws. Post appropriate signs against the risk of fire and / or explosion.

7.1.2. Generic recommendations on occupational hygiene

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Management of risks associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances and mixtures, evaporation conditions, potential sources of ignition

The product itself does not burn but if involved in a fire it can release toxic gases. Suitable containers: plastic.

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In case of release of hydrogen cyanide: The formation of flammable or explosive dust / air mixtures is possible.

Keep suitable fire extinguishers and plenty of water near the substance. Open the containers under suction and close them immediately after use.

7.2.2. Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations

Keep in a locked and ventilated room. Protect against solar radiation and the action of heat.

7.2.3. Conditions for keeping substances / mixtures intact

Store in original containers. Keep the containers tightly closed and store them in a dry and well ventilated, clean, dry, closable place.

7.2.4. Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging

Do not store near: acids and acid salts.

Keep the substances in a locked deposit with forced ventilation.

Use ADR approved packaging

7.3. Specific end uses

Industrial use.

EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

(as Potassium Cyanide CAS 151-50-8 EC 205-792-3)

Control parameters: 5 mg / m3 Permitted limit value (OEL (IT))

Remarks: Source for limit values: ACGIH

Control parameters: Skin designation: (OEL (IT)) It can be absorbed through the epidermis.

Suitable measurement procedures are:

Potassium cyanide: OSHA method ID120 NIOSH method 7904

Hydrogen cyanide: OSHA method ID120

DNEL:

Systemic effects for long term exposure - inhalation: 0.071 mg/m³

Systemic effects for acute long-term exposure - dermal: 0.1 mg / kg bw / day

PNEC:

Fresh water: 0.2 µg / L

Fresh water (intermittent release): 2 μg / L

Sea water: 0.02 µg / L

STP: 6 mg/L

Sediment (fresh water): 0.33 mg / kg dry weight Sediment (sea water): 0.033 mg / kg dry weight

Soil: 0.067 mg / kg dry weight

8.2. Exposure controls

Provide for appropriate air extraction / evacuation in the workplace and on the operating machine.

Provide for the installation of an emergency shower and an eye shower.

8.

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8.2.1. Appropriate technical controls

Use only in aspirated rooms.

8.2.2. Individual protection measures, such as personal protective equipment

Eye / face protectionGoggles with side shields compliant with

Directive 89/686 / EEC and EN166: 2001

standard

Skin protection (hands) Glove material:

Glove material:

• Nitrile rubber thickness 0.38 mm Breakthrough time> 240 minutes

Skin (body) protectionComplete clothing compliant with the UNI

EN 13034: 2006 type 6 standard

When cleaning: rubber or plastic boots

Respiratory protection When hydrogen cyanide occurs:

Wear self-contained breathing apparatus. Observe the maximum times of use of

respiratory protection. In case of dust / aerosol:

Respirator with combined filter B-P3
Respirator with combined filter ABEK-P3

Thermal hazardsThe substance does not present a thermal

hazard

8.2.3. Environmental exposure controls

Prevent the spillage of solutions containing cyanide in groundwater, soil, sewers. Provide for closing the manholes while moving the solutions. Do not store in areas with sewage drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Crystalline solid

Color White

Odour None when dry.

Almond if moist

Boiling point or initial boiling point and Non applicable

boiling range

Flammability
Lower and upper explosive limits
Flash point
Self-ignition temperature
Not flammable
Not applicable
Not flammable

Decomposition temperature 383 °C

pH 11 (100 g/l in water) Kinematic viscosity Not applicable

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Solubility 143 g/l in water at 20°C

Partition coefficient n-octanol / water Not applicabile

(logarithmic value)

Vapor pressure Not applicable

Density and / or relative density 3,6 g/cm³ (20° +/-0.5 °C)

Relative vapor density Not applicable

Characteristics of the particles Fraction < 100 µm: 17.6 %

9.2. Other information: none

10. STABILITY AND REACTIVITY

10.1 Reactivity

It can be corrosive to metals

Danger of hydrocyanic acid formation in contact with acids, carbon dioxide, air humidity.

10.2 Chemical stability

The product is stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Contact with acids liberates a very toxic gas

If involved in a large fire there is the possibility of hydrocyanic acid formation.

10.4 Conditions to avoid

Under the action of acids (including carbon dioxide) hydrogen cyanide is released, which is flammable and together with the air can form explosive gas mixtures. Keep away from acid salts.

10.5 Incompatible materials

Acids, acid salts. Over time, even the air can lead to the formation of hydrogen cyanide in a confined environment or in containers that are not hermetically closed.

10.6 Hazardous decomposition products

HCN hydrogen cyanide (hydrogen cyanide)

11 TOXICOLOGICAL INFORMATION

11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008

acute toxicity: Lethal product: do not inhale - Lethal product: do not ingest skin corrosion / irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs or edema.

serious eye damage / irritation: If brought into contact with the eyes, the product causes serious eye damage, such as opacification of the cornea or injury to the iris. respiratory tract or skin sensitization: If brought into contact with the skin, the product may cause skin sensitization.

Germ cell mutagenicity: based on available data, the classification criteria are not met.

carcinogenicity: based on available data, the classification criteria are not met. reproductive toxicity: based on available data the classification criteria are not met. specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met.

specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met.

aspiration hazard: based on available data the classification criteria are not met.

According to Regulation n. 1907/2006 and Regulation 878/2020 **DOUBLE SALT AU-K 68% - 68,2% - 68,3%**

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Parameter	Exposure ways	Conclusions
Acute toxicity	Oral, rat	LD50: 29.2 mg/kg body weight
Acute toxicity	dermal, rat	LD50: >2000 mg/kg body weight
Irritation / Corrosion	Sking	Irritating
Irritation / Corrosion	Eyes	Serious eye damage
Repeated dose toxicity	Oral	NOAEL: 3 mg / kg body weight / day (rat)
Reproductive toxicity: effects on fertility	Oral	NOAEL: 3 mg / kg body weight / day (rat)
effects off fertility	Orai	(iat)
Reproductive toxicity:		No adverse effects observed
developmental effects	Oral	NOAEL: 10 mg / kg body weight / day

11.2 Information on other hazards

It can be absorbed into the skin, particularly if the skin is sweaty or injured. Symptoms related to the physical, chemical and toxicological characteristics: Respiratory fatigue, loss of consciousness

Inhalation (about 200 ppm HCN in atmospheric air is enough) or ingestion (about 200 - 300 mg KCN) can cause immediate loss of consciousness and death. In case of long-term exposure (15 ppm) single cases of thyroid function disorders have been reported.

Relating to substance: hydrogen cyanide Epidemiological studies with exposed workers (1-3 ppm) did not show negative effects on health.

12. **ECOLOGICAL INFORMATION**

The product is dangerous for the environment as it is very toxic to aquatic organisms

The product is dangerous for the environment as it is very toxic to aquatic life with long lasting effects.

12.1 **Toxicity:**

Toxicity to fish - Short term effects

Method	Risults
Oncorhynchus mykiss - according to	LC50 (24h): 12 mg/l
EOCD guideline 203 (test for short-term	LC50 (48h): 5.7 mg/l
toxicity in fish)	LC50 (72h): 5.7 mg/l
	LC50 (96h): 5.7 mg/l
	NOEC (96h): 3.2 mg/l
	LOEC (96h): 10 mg/l

Toxicity to invertebrates - Short term effects

Method **Risults**

According to Regulation n. 1907/2006 and Regulation 878/2020 DOUBLE SALT AU-K 68% - 68,2% - 68,3%

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•			
		Daphnia Magna	EC50 (24h): 0.76 mg/l
		In accordance with OECD 202 guideline	EC50 (48h): 0.20 mg/l
		(Daphnia sp. Acute immobilisitation	NOEC (48h): 0.094 mg/
		Test)	LOEC(48H): 0.21 mg/l
		,	, , σ,
		Toxicity to algae and plants - Short term	
		Method	Results
		Pseudokirchneriella subcapitata	EC50 (72h) :14 mg/l (su biomassa)
		In accordance with OECD 201 guideline	EC50 (72h): 30 mg/l (su crescita)
			NOEC (72h): 6.4 mg/l (su biomassa)
			NOEC (72h): 6.4 mg/l (su crescita)
			LOEC (72h): 16 mg/l (su biomassa)
			LOEC (72h): 16 mg/l (su crescita)
			EC10 (72h): 4.4 mg/l (su biomassa)
			EC10 (72h): 11 mg/l (su crescita)
			EC20 (72h): 8 mg/l (su biomassa)
			EC20 (72h): 17 mg/l (su crescita)
12.2 Persistence and degradability			
Not applicable			
	12.3	Bioaccumulation potential	
No data available			
	12.4	Mobility in soil	
		Koc at 20 °C: 16648.7	
	12.5 Results of PBT and vPvB assessment		
		No data available	
	12.6		
12.7 Other adverse effects			
		No data available	
13.		DISPOSAL CONSIDERATIONS	
	13.1.	Waste treatment methods	
			disposed of in authorized facilities. An CER
		-	ed on the basis of the provisions of Directive
2008/98 / EC and subsequent amendments and additions.			
The packaging and labeling of waste must be identical to that of the p			
Do not remove the labels from the packaging until their final destinat			iging until their final destination.
Do not reuse empty containers. Cyanide waste can only be treated and decontaminated by			
		·	
with: Hydrogen peroxide and pH value 11).		1).	
14.		TRANSPORT INFORMATION	
	14.1	UN number or ID number	1588
	14.2	UN proper shipping name	Inorganic cyanides, solid, n.o.s.
	14.3 Transport hazard classes		
ADR / RID / IMDG / ICAO-IATA: Class: 6.1 ADR / RID / IMDG / ICAO-IATA: Label: 6.1 + Environment			
			+ Environment
		ADD T	

ADR: Tunnel restriction code: C / E

According to Regulation n. 1907/2006 and Regulation 878/2020 DOUBLE SALT AU-K 68% - 68,2% - 68,3%

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IMDG - EmS: FA, S-A

	14.4		Packing group	II		
	14.5		Environmental hazards	s		
			ADR / RID / ICAO-IATA: Product dangerous for the en	R / RID / ICAO-IATA: Product dangerous for the environment		
IMDG: Marine contaminant: Yes			IMDG: Marine contaminant: Yes			
	14.6		Special precautions for users			
			The transport must be carried out by vehicles aut	horized to trans	port dangerous	
			goods according to the prescriptions of the curr	ent edition of	the A.D.R. and	
			applicable national provisions. Transport must be	e carried out	in the original	
			packaging and, in any case, in packaging that is made	•		
			attacked by the content and are not likely to generat	-		
			The persons in charge of loading and unloading dang	_		
			appropriate training on the risks presented by the pre	eparation and on	any procedures	
			to be adopted in case of emergency situations			
	14.7		Bulk sea transport in accordance with IMO acts			
			Transport in bulk is not foreseen			
15.			REGULATORY INFORMATION			
	1	15.1	Health, safety and environmental legislation and i	regulations	Applicability	
			specific to the substance or mixture			
			Reg. (CE) 1907/2006/CE Reach		YES	
			Reg. (EC) 1272/2008 CLP and following changes and		YES	
			Reg. (CE) 2037/2000 "Substances that deplete the c	zone layer"	NO	
			Reg. (EC) 850/2004 "Persistent organic pollutants"		NO	
			Reg. (EC) 689/2008 "export and import of dangerou chemicals"	IS	NO	
			Substance listed in Annex I of Dir. 2012/18 / EU so-	called	YES	
			Seveso		. 20	
			Legislative Decree 81/2008 Consolidated Law on he	alth and	YES	
			safety at work			
			Directive 2014/103 / EU "Adr"		YES	
			R.D. 09/01/1927 "Gas tossici" R.D. 09/01/1927 "To	xic gases"	NO	
	1	15.2	Chemical safety assessment			
			It was carried out			
16.			OTHER INFORMATION			
			Changes compared to the previous edition			
			Regulatory adaptation.			
			Key to abbreviations and acronyms			
			ADR: European agreement concerning the internation goods by road	nal transport of	dangerous	
			GHS: Globally Harmonized System of Classification a	nd Labeling of Su	ubstances	

Main bibliographic references and data sources

CAS: Chemical Abstract Service

EINECS: European Inventory of Chemical Substances

According to Regulation n. 1907/2006 and Regulation 878/2020 DOUBLE SALT AU-K 68% - 68,2% - 68,3% Potassium dicyanoaurate (Au 68% - 68,2% -68,3%)

Rev n. VII of 09.21.2021 Replaces rev n VI of 01.21.2019

ECHA database on registered substances and those under registration:

http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

Adequate training for workers to ensure the protection of human health and the environment

- Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances
- PPE training
- Training for obtaining a license for handling toxic gases