acc. to Regulation (EC) No. 1907/2006 (REACH)



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Potassium dicyanoaurate (I), extra pure

article number: **3959** Version: **4.0 en** Replaces version of: 2022-07-18 Version: (3)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Identification of the substance	Potassium dicyanoaurate (I) , extra pure
Article number	3959
Index No (GB CLP)	006-007-00-5
EC number	237-748-4
CAS number	13967-50-5

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for squirting or spraying. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

acc. to Regulation (EC) No. 1907/2006 (REACH)

Potassium dicyanoaurate (I), extra pure



article number: 3959

Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.10	Acute toxicity (oral)	2	Acute Tox. 2	H300
3.1D	Acute toxicity (dermal)	1	Acute Tox. 1	H310
3.1I	.1I Acute toxicity (inhal.)		Acute Tox. 2	H330
3.2	2 Skin corrosion/irritation		Skin Irrit. 2	H315
3.3	3.3 Serious eye damage/eye irritation		Eye Dam. 1	H318
3.4S	3.45 Skin sensitisation		Skin Sens. 1	H317
4.1A	Hazardous to the aquatic environment - acute hazard		Aquatic Acute 1	H400
4.1C	Hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

Supplemental hazard information

Code	Supplemental hazard information
EUH032	contact with acids liberates very toxic gas

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS05, GHS06,

GHS09



Hazard statements

H290	May be corrosive to metals
H300+H310+H330	Fatal if swallowed, in contact with skin or if inhaled
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P280

Wear protective gloves/protective clothing/eye protection/face protection

acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I), extra pure

article number: 3959

P301+P310 P302+P352 P305+P351+P338 P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor IF ON SKIN: Wash with plenty of water IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER/doctor
P310	Immediately call a POISON CENTER/doctor

Precautionary statements - storage

P405 Store locked up

Supplemental hazard information

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	Potassium dicyanoaurate (I)
Molecular formula	K[Au(CN) ₂]
Molar mass	288,1 ^g / _{mol}
CAS No	13967-50-5
EC No	237-748-4
Index No (GB CLP)	006-007-00-5

Substance, Specific Conc. Limits, M-factors, ATE					
Specific Conc. Limits M-Factors ATE Exposure route					
-	-	36,1 ^{mg} / _{kg} 49 ^{mg} / _{kg} >0,05 ^{mg} / _l /4h	oral dermal inhalation: dust/ mist		

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

acc. to Regulation (EC) No. 1907/2006 (REACH)





article number: 3959

Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation: Irritation, Dyspnoea, After eye contact: Causes tears, Risk of serious damage to eyes, Risk of blindness, Following skin contact: Allergic reactions, Localised redness, oedema, pruritis and/or pain, Following ingestion: Choking and suffocation risks, Large doses may result in coma and death

4.3 Indication of any immediate medical attention and special treatment needed

In the case of bluish discoloration (lips, earlobes, finger nails) give oxygen as soon as possible. Sodium thiosulfate (in case of cyanide poisoning).

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen cyanide (HCN, prussic acid)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

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Potassium dicyanoaurate (I), extra pure

article number: 3959

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use extractor hood (laboratory). Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly. Handle under inert gas. Protect from moisture.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Hygroscopic. Keep under inert gas.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

humidity, contact with air/oxygen

Consideration of other advice:

Store locked up.

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Potassium dicyanoaurate (I), extra pure

article number: 3959

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m ³]	Nota- tion	Source
GB	dust		WEL	10			i	EH40/2005
GB	dust		WEL	4			r	EH40/2005

Notation

 Ceiling-C
 Ceiling value is a limit value above which exposure should not occur

 i
 Inhalable fraction

 r
 Respirable fraction

 STEL
 Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

 TWA
 Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs and other threshold levels						
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time		
DNEL	0,071 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects		
DNEL	0,1 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects		

Environmental values

Relevant PNECs and other threshold levels						
End- point	Threshold level	Organism	Environmental com- partment	Exposure time		
PNEC	0,2 ^{µg} / _l	aquatic organisms	freshwater	short-term (single instance)		
PNEC	0,02 ^{µg} / _l	aquatic organisms	marine water	short-term (single instance)		
PNEC	6 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)		
PNEC	0,33 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)		
PNEC	0,033 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)		

acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I), extra pure

article number: 3959

Relevant	Relevant PNECs and other threshold levels					
End- pointThresholdOrganismEnvironmental com- partmentExposure time						
PNEC	0,067 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)		

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

material thickness

0,4 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). Type: B-P2 (combined filters for acidic gases and particles, colour code: Grey/White).

Environmental exposure controls

Keep away from drains, surface and ground water.

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Potassium dicyanoaurate (I) , extra pure

article number: 3959

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical pr	nformation on basic physical and chemical properties			
	Physical state	solid			
	Form	powder			
	Colour	white			
	Odour	odourless			
	Melting point/freezing point	383 °C (ECHA)			
	Boiling point or initial boiling point and boiling range	not determined			
	Flammability	non-combustible			
	Lower and upper explosion limit	not determined			
	Flash point	not applicable			
	Auto-ignition temperature	not determined			
	Decomposition temperature	383 °C			
	pH (value)	not applicable			
	Kinematic viscosity	not relevant			
	Solubility(ies)				
	Water solubility	~ 140 ^g / _l at 20 °C (ECHA)			
	Partition coefficient				
	Partition coefficient n-octanol/water (log value):	not relevant (inorganic)			
	Vapour pressure	not determined			
	Density and/or relative density				
	Density	~ 3,45 ^g / _{cm³}			
	Relative vapour density	Information on this property is not available.			
	Particle characteristics	No data available.			
	Other safety parameters				
	Oxidising properties	none			
9.2	Other information				
	Information with regard to physical hazard classes:				
	Corrosive to metals	category 1: corrosive to metals			
	Other safety characteristics:	There is no additional information.			

acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I), extra pure

article number: 3959

SECTION 10: Stability and reactivity

10.1 Reactivity

It's a reactive substance. Substance or mixture corrosive to metals.

10.2 Chemical stability

Reactivity if exposed to air. Moisture-sensitive. Hygroscopic solid.

10.3 Possibility of hazardous reactions

Violent reaction with: Acids, Carbon dioxide (CO₂), Mineral acids

10.4 Conditions to avoid

Contact with air/oxygen. Protect from moisture. Keep away from heat. Decompostion takes place from temperatures above: 383 °C.

10.5 Incompatible materials

different metals, aluminium, zinc, Tin

Release of toxic materials with

Acids. Carbon dioxide (CO_2). => Hydrogen cyanide (HCN, prussic acid).

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled.

Acute toxicity							
Exposure route	Endpoint	Value	Species	Method	Source		
oral	LD50	36,1 ^{mg} / _{kg}	rat		ECHA		
dermal	LD50	>2.000 ^{mg} / _{kg}	rat		ECHA		

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Potassium dicyanoaurate (I), extra pure



article number: 3959

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

large doses may result in coma and death

• If in eyes

Causes serious eye damage, risk of blindness

• If inhaled

irritant effects, Dyspnoea

• If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

Other information

Other adverse effects: Cyanosis (blue coloured blood)

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)						
Endpoint	Value	Species	Source	Exposure time		
LC50	12 ^{mg} / _l	fish	ECHA	24 h		
EC50	0,76 ^{mg} / _l	aquatic invertebrates	ECHA	24 h		
ErC50	30 ^{mg} /l	algae	ECHA	72 h		

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	406 ^{mg} / _l	microorganisms	ECHA	3 h

acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I), extra pure

article number: 3959

12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 0,05553 $^{mg}/_{mg}$ Theoretical Oxygen Demand (with nitrification): 0,2915 $^{mg}/_{mg}$ Theoretical Carbon Dioxide: 0,3055 $^{mg}/_{mg}$

12.3 Bioaccumulative potential Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

- HP 4 irritant skin irritation and eye damage
- HP 6 acute toxicity
- HP 12 release of an acute toxic gas
- HP 13 sensitising
- HP 14 ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

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Potassium dicyanoaurate (I), extra pure

article number: **3959**

SECTION 14: Transport information 14.1 UN number or ID number ADRRID UN 1588 IMDG-Code UN 1588 ICAO-TI UN 1588 14.2 UN proper shipping name ADRRID CYANIDES, INORGANIC, SOLID, N.O.S. IMDG-Code CYANIDES, INORGANIC, SOLID, N.O.S. ICAO-TI Cyanides, inorganic, solid, n.o.s. Technical name Potassium dicyanoaurate (I) 14.3 Transport hazard class(es) ADRRID 6.1 IMDG-Code 6.1 ICAO-TI 6.1 14.4 Packing group ADRRID Ι IMDG-Code Ι ICAO-TI I 14.5 Environmental hazards hazardous to the aquatic environment

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additiona information			
Proper shipping name	CYANIDES, INORGANIC, SOLID, N.O.S.		
Particulars in the transport document	UN1588, CYANIDES, INORGANIC, SOLID, N.O.S., (Potassium dicyanoaurate (I)), 6.1, I, (C/E), envir- onmentally hazardous		
Classification code	Т5		
Danger label(s)	6.1, "Fish and tree"		
Environmental hazards	YES (hazardous to the aquatic environment)		
Special provisions (SP)	47, 274, 802(ADN)		
Excepted quantities (EQ)	E5		

Safety data sheet Safety data sheet acc. to Regulation (EC) No. 1907/2006 (REACH)

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Potassium	dicyanoaurate	(I) ,	extra	pure
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Limited quantities (LQ)	0
Transport category (TC)	1
Tunnel restriction code (TRC)	C/E
Hazard identification No	66
Emergency Action Code	2X
Regulations concerning the International (Carriage of Dangerous Goods by Rail (RID)Additio
Classification code	Т5
Danger label(s)	6.1, "Fish and tree"
Environmental hazards	Yes Hazardous to water
Special provisions (SP)	47, 274, 802(ADN)
Excepted quantities (EQ)	E5
Limited quantities (LQ)	0
Transport category (TC)	1
Hazard identification No	66
International Maritime Dangerous Goods	Code (IMDG) - Additional information
Proper shipping name	CYANIDES, INORGANIC, SOLID, N.O.S.
Particulars in the shipper's declaration	UN1588, CYANIDES, INORGANIC, SOLID, N.C (Potassium dicyanoaurate (I)), 6.1, I, MARINE LUTANT
Marine pollutant	yes (P) (hazardous to the aquatic environment)
Danger label(s)	6.1, "Fish and tree"
Special provisions (SP)	47, 274
Excepted quantities (EQ)	E5
Limited quantities (LQ)	0
EmS	F-A, S-A
Stowage category	A
Segregation group	6 - Cyanides
International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information
Proper shipping name	Cyanides, inorganic, solid, n.o.s.
Particulars in the shipper's declaration	UN1588, Cyanides, inorganic, solid, n.o.s., (P tassium dicyanoaurate (I)), 6.1, I
Environmental hazards	Yes (hazardous to the aquatic environment)
Danger label(s)	6.1

acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I), extra pure

article number: 3959

Special provisions (SP)	A3, A13
Excepted quantities (EQ)	E5

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements		Notes
H1	acute toxic (cat. 1)	5	20	40)

Notation

40) Category 1, all exposure routes

Deco-Paint Directive

VOC content 0 %

Industrial Emissions Directive (IED)

VOC content	0 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Potassium dicyanoaurate (I)	Cyanides		a)	
Potassium dicyanoaurate (I)	Metals and their compounds		a)	

Legend a)

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

acc. to Regulation (EC) No. 1907/2006 (REACH)

Potassium dicyanoaurate (I), extra pure



article number: 3959

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

Restrictions according to GB REACH, Annex 17

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

 AIIC
 Australian Inventory of Industrial Chemicals

 CSCL-ENCS
 List of Existing and New Chemical Substances (CSCL-ENCS)

 DSL
 Domestic Substances List (DSL)

 ECSI
 EC Substance Inventory (EINECS, ELINCS, NLP)

 IECSC
 Inventory of Existing Chemical Substances Produced or Imported in China

 KECI
 Korea Existing Chemicals Inventory

 VICI
 National Chemicals Inventory

 NCI National Chemical Inventory NCI National Chemical Inventory NZIOC New Zealand Inventory of Chemicals PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS) REACH Reg. REACH registered substances Taiwan Chemical Substance Inventory TCSI TSCA **Toxic Substance Control Act**

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

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Potassium dicyanoaurate (I), extra pure

article number: 3959

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.1	ADRRID: UN 3290	ADRRID: UN 1588	yes
14.1	IMDG-Code: UN 3290	IMDG-Code: UN 1588	yes
14.1	ICAO-TI: UN 3290	ICAO-TI: UN 1588	yes
14.2	ADRRID: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.	ADRRID: CYANIDES, INORGANIC, SOLID, N.O.S.	yes
14.2	IMDG-Code: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.	IMDG-Code: CYANIDES, INORGANIC, SOLID, N.O.S.	yes
14.2	ICAO-TI: Toxic solid, corrosive, inorganic, n.o.s.	ICAO-TI: Cyanides, inorganic, solid, n.o.s.	yes
14.3	ADRRID: 6.1 (8)	ADRRID: 6.1	
14.3	IMDG-Code: 6.1 (8)	IMDG-Code: 6.1	
14.3	ICAO-TI: 6.1 (8)	ICAO-TI: 6.1	
14.8	Proper shipping name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.	Proper shipping name: CYANIDES, INORGANIC, SOLID, N.O.S.	yes
14.8	Particulars in the transport document: UN3290, TOXIC SOLID, CORROSIVE, INORGAN- IC, N.O.S., (Potassium dicyanoaurate (I)), 6.1 (8), I, (C/E), environmentally hazardous	Particulars in the transport document: UN1588, CYANIDES, INORGANIC, SOLID, N.O.S., (Potassium dicyanoaurate (I)), 6.1, I, (C/E), envir- onmentally hazardous	yes
14.8	Classification code: TC4	Classification code: T5	
14.8	Danger label(s): 6.1+8, "Fish and tree"	Danger label(s): 6.1, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Special provisions (SP): 274, 802(ADN)	Special provisions (SP): 47, 274, 802(ADN)	
14.8	Hazard identification No: 668	Hazard identification No: 66	
14.8	Classification code: TC4	Classification code: T5	
14.8	Danger label(s): 6.1+8 Fish and tree	Danger label(s): 6.1, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes

acc. to Regulation (EC) No. 1907/2006 (REACH)

Potassium dicyanoaurate (I) , extra pure

® Roth

article number: 3959

Section	Former entry (text/value)	Actual entry (text/value)	Safety relev- ant
14.8	Special provisions (SP): 274, 802(ADN)	Special provisions (SP): 47, 274, 802(ADN)	yes
14.8	Hazard identification No: 668	Hazard identification No: 66	yes
14.8	Proper shipping name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S.	Proper shipping name: CYANIDES, INORGANIC, SOLID, N.O.S.	yes
14.8	Particulars in the shipper's declaration: UN3290, TOXIC SOLID, CORROSIVE, INORGAN- IC, N.O.S., (Potassium dicyanoaurate (I)), 6.1 (8), I, MARINE POLLUTANT	Particulars in the shipper's declaration: UN1588, CYANIDES, INORGANIC, SOLID, N.O.S., (Potassium dicyanoaurate (I)), 6.1, I, MARINE POLLUTANT	yes
14.8	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (P) (hazardous to the aquatic environment)	yes
14.8	Danger label(s): 6.1+8, "Fish and tree"	Danger label(s): 6.1, "Fish and tree"	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Special provisions (SP): 274	Special provisions (SP): 47, 274	yes
14.8	EmS: F-A, S-B	EmS: F-A, S-A	yes
14.8	Stowage category: B	Stowage category: A	yes
14.8		Segregation group: 6 - Cyanides	yes
14.8	Proper shipping name: Toxic solid, corrosive, inorganic, n.o.s.	Proper shipping name: Cyanides, inorganic, solid, n.o.s.	yes
14.8	Particulars in the shipper's declaration: UN3290, Toxic solid, corrosive, inorganic, n.o.s., (Potassium dicyanoaurate (I)), 6.1 (8), I	Particulars in the shipper's declaration: UN1588, Cyanides, inorganic, solid, n.o.s., (Po- tassium dicyanoaurate (I)), 6.1, I	yes
14.8	Danger label(s): 6.1+8	Danger label(s): 6.1	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Special provisions (SP): A5	Special provisions (SP): A3, A13	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)

Safety data sheet Safety data sheet acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I) , extra pure

article number: 3959

Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	= EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

acc. to Regulation (EC) No. 1907/2006 (REACH)



Potassium dicyanoaurate (I), extra pure

article number: **3959**

Abbr.	Descriptions of used abbreviations
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.