

Safety Data Sheet

according to UK REACH Regulation

Doduco Contacts and Refining GmbH

Revision date: 24.04.2023

Silver cyanide 80,5 % Ag

Product code: 00464-0190



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

1.1. Product identifier

Silver cyanide 80,5 % Ag

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

Use of the substance/mixture

Product for galvano plating

1.3. Details of the supplier of the safety data sheet

Company name:	Doduco Contacts and Refining GmbH		
Street:	Im Altgefäll 12		
Place:	D-75181 Pforzheim		
Telephone:	+49 (0) 7231-602-0	Telefax:	+49 (0) 7231-602-554
Contact person:	HZW, Scheiderei, Galv Salze, Präparate		

Responsible Department:

Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

Emergency telephone :+49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290
Acute Tox. 3; H301
Skin Irrit. 2; H315
Eye Dam. 1; H318
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Danger

Pictograms:



Hazard statements

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.

2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
506-64-9	Silver cyanide			100 %
	208-048-6		01-2120138003-73-	
	Met. Corr. 1, Acute Tox. 3, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H290 H301 H315 H318 H400 H410 EUH032			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
506-64-9	208-048-6	Silver cyanide	100 %
	oral: ATE = 100 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Consult a physician immediately (keyword: Hydrocyan poisoning).
Remove contaminated soaked clothing immediately and dispose of safely.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.
Consult a physician immediately (keyword: Hydrocyan poisoning).

After contact with skin

In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids.
Summon a doctor immediately.

After ingestion

Immediately give plenty of water (if possible charcoal slurry).
Induce vomiting if person is conscious.
Summon a doctor immediately. (Keyword: Hydrocyan poisoning)

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

No data available

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

Suitable antidote hold ready.
If swallowed, induce vomiting (if conscious).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder

Unsuitable extinguishing media

Water

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.
In fires, hazardous combustion gases are formed:

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Hydrogen cyanide (HCN)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Do not breathe gases from fire and explosion.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protective clothing.

In case of vapour formation use respirator.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water.

6.3. Methods and material for containment and cleaning up

Other information

Shovel into suitable container for disposal.

Avoid dust formation.

Disposal according to regulations.

6.4. Reference to other sections

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed.

Use only in well-ventilated areas.

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Store in original container.

Hints on joint storage

Keep at a distance of acids.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Do not use metal containers.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Cyanides, except HCN, NaCN, KCN, cyanogen & cyanogen chloride (as CN)	-	5		TWA (8 h)	WEL

8.2. Exposure controls

Appropriate engineering controls

Provide sufficient air exchange and/or exhaust in work rooms.

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Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

Avoid contact with skin, eyes and clothing.

At work do not eat, drink and smoke.

Remove soaked clothing immediately.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nature latex, 0,6 mm, 480 min., 60 min., i.e. protective glove made by www.kcl.de.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Skin protection

Impermeable protective coverall

Respiratory protection

In case of respirable dust, use a self-contained breathing apparatus.

Full mask, combination filter B2/P3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid	
Colour:	White	
Odour:	Odourless	
pH-Value:		n.a.

Changes in the physical state

Flash point:		n.a.
Density:		n.d.
Water solubility: (at 20 °C)	More or less insoluble	

9.2. Other information

Develops with acids and also with carbondioxide high poisonous hydrocyan

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Contact with acids liberates hydrogen cyanide (hydrocyanic acid).

Decomposition starting from 350°C.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Hydrogen cyanide gas

Further information

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Toxic if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
506-64-9	Silver cyanide				
	oral	ATE 100 mg/kg			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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.

SECTION 12: Ecological information

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

No data available

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

Do not discharge into surface waters/groundwater.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Remove in accordance with local official regulations.

Where possible recycling is preferred to disposal.

List of Wastes Code - used product

110301 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; sludges and solids from tempering processes; wastes containing cyanide; hazardous waste

Contaminated packaging

Empty receptacle completely. Dispose like the product.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1684
14.2. UN proper shipping name: SILVER CYANIDE
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1



Classification code: T5
Limited quantity: 500 g
Excepted quantity: E4
Transport category: 2
Hazard No: 60
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1684
14.2. UN proper shipping name: SILVER CYANIDE
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1



Classification code: T5
Special Provisions: 802
Limited quantity: 500 g
Excepted quantity: E4

Marine transport (IMDG)

14.1. UN number: UN 1684
14.2. UN proper shipping name: SILVER CYANIDE
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1



Marine pollutant: P
Special Provisions: -
Limited quantity: 500 g
Excepted quantity: E4
EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1684
14.2. UN proper shipping name: SILVER CYANIDE
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
Hazard label: 6.1

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Limited quantity Passenger:

1 kg

Passenger LQ:

Y644

Excepted quantity:

E4

IATA-packing instructions - Passenger:

669

IATA-max. quantity - Passenger:

25 kg

IATA-packing instructions - Cargo:

676

IATA-max. quantity - Cargo:

100 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Yes



14.6. Special precautions for user

No specific precautions required.

14.7. Maritime transport in bulk according to IMO instruments

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2004/42/EC (VOC):

0%

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D):

3 - highly hazardous to water

Additional information

"ZH 1/129.1 ""Data Sheet: Hydrogen cyanide (Hydrocyanic acid), Cyanide (M 002)""

Consider Chemical prohibition regulation.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Changes

Changes in section: 2, 3, 15.2

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

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GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

Further Information

National and local regulations concerning chemicals shall be observed.

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)