

**Safety Data Sheet dated 27/1/2023, version 9**

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

### **1.1. Product identifier**

Identification of the substance

Trade name: B201 - Sale Galvanico Solubile  
Trade code: B201  
CAS number: 506-61-6  
EC number: 208-047-0  
REACH number: 01-2120753799-33

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

Recommended use:

Galvanic, base and lab chemistry

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

Company:  
CABRO SPA - AREZZO  
Road Setteponti 141  
52100 - Italy  
CABRO SPA  
Phone n. +39 0575 984442  
Office hours: 9-13 / 14.30-17.30

Competent person responsible for the safety data sheet:

info@cabro.it

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

CABRO SPA  
Phone n. +39 0575 984442  
Office hours: 9-13 / 14.30-17.30  
Poison Information Center - 24/24h Careggi Hospital (Florence) - Phone +39 055 7947819  
Poison Information Center - 24/24h Foggia Hospital - Phone +39 0881-732326  
Poison Information Center - 24/24h Bergamo Hospital - Phone +39 800 883300

## **SECTION 2: Hazards identification**

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

EC regulation criteria 1272/2008 (CLP)

- ⚠ Warning, Met. Corr. 1, May be corrosive to metals.
  - ⚠ Danger, Acute Tox. 1, Fatal if swallowed.
  - ⚠ Danger, Acute Tox. 3, Toxic in contact with skin.
  - ⚠ Danger, Acute Tox. 1, Fatal if inhaled.
  - ⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
  - ⚠ Danger, Eye Dam. 1, Causes serious eye damage.
  - ⚠ Warning, Aquatic Acute 1, Very toxic to aquatic life.
  - ⚠ Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.
- EUH032 Contact with acids liberates very toxic gas.

Adverse physicochemical, human health and environmental effects:

No other hazards

### **2.2. Label elements**

Hazard pictograms:



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## B201 - Sale Galvanico Solubile



### Danger

#### Hazard statements:

- H290 May be corrosive to metals.
- H300+H330 Fatal if swallowed or if inhaled.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/clothing and eye/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P391 Collect spillage.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### Special Provisions:

- EUH032 Contact with acids liberates very toxic gas.

#### Contains

Potassium dicyanoargentate

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Identification of the substance

Chemical characterization: B201 - Sale Galvanico Solubile

Trade code: B201

CAS number: 506-61-6

EC number: 208-047-0

REACH number: 01-2120753799-33

Qty	Name	Ident. Number	Classification
100 %	Potassium dicyanoargentate	CAS: 506-61-6 EC: 208-047-0 REACH No.: 01-2120753799-33	<ul style="list-style-type: none"> <li>⚠ 2.16/1 Met. Corr. 1 H290</li> <li>⚠ 3.1/1/Oral Acute Tox. 1 H300</li> <li>⚠ 3.1/3/Dermal Acute Tox. 3 H311</li> <li>⚠ 3.1/1/Inhal Acute Tox. 1 H330</li> <li>⚠ 3.2/1A Skin Corr. 1A H314</li> <li>⚠ 3.3/1 Eye Dam. 1 H318</li> <li>⚠ 4.1/A1 Aquatic Acute 1 H400 M=100.</li> </ul>

			⚠ 4.1/C1 Aquatic Chronic 1 H410 M=10. EUH032
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M factor:

M: 100

M (chronic): 10

**3.2. Mixtures**

N.A.

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale combustion gases

Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

For non emergency personnel:  
Wear personal protection equipment.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.  
For emergency responders:  
Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

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## **SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.

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

Always keep in a well ventilated place.  
Keep away from food, drink and feed.  
Incompatible materials:  
Keep away from acids.  
Instructions as regards storage premises:  
Adequately ventilated premises.

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

None in particular

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## **SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No occupational exposure limit available

DNEL Exposure Limit Values

Potassium dicyanoargentate - CAS: 506-61-6

Worker Industry: 0.078 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Worker Industry: 0.011 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

Potassium dicyanoargentate - CAS: 506-61-6

Target: Fresh Water - Value: 0.04 µg/l

Target: Marine water - Value: 0.86 µg/l

Target: Sewage treatment plant - Value: 0.025 mg/l

Target: Freshwater sediments - Value: 438 mg/kg dwt

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Target: Marine water sediments - Value: 438 mg/kg dwt

### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Physical state:	Solid	--	Powder
Colour:	White	--	--
Odour:	odorless	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	Non-flammable	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--

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Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	N.A.	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

It decomposes on reaction with strong acids

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Keep away from acids

### 10.6. Hazardous decomposition products

HCN

## SECTION 11: Toxicological information

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

Toxicological information of the substance:

B201 - Sale Galvanico Solubile - CAS: 506-61-6

#### a) acute toxicity

The product is classified: Acute Tox. 1 H300; Acute Tox. 3 H311; Acute Tox. 1 H330

#### b) skin corrosion/irritation

The product is classified: Skin Corr. 1A H314

#### c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

#### d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

#### e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

#### f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
  - h) STOT-single exposure  
Not classified  
Based on available data, the classification criteria are not met
  - i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
  - j) aspiration hazard  
Not classified  
Based on available data, the classification criteria are not met
- B201 - Sale Galvanico Solubile - CAS: 506-61-6  
Potassium silver cyanide - Index: N.A., CAS: 506-61-6 EC No: N.A.  
The toxicity of the product is not known. For potassium cyanide, the lethal dose for man is 2.8 mg / Kg  
The lethal dose for man with hydrocyanic acid is 100-150 ppm for a 30-60 minute exposure

**11.2. Information on other hazards**

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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**SECTION 12: Ecological information**

**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

B201 - Sale Galvanico Solubile - CAS: 506-61-6

The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Potassium dicyanoargentate - CAS: 506-61-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 3.3 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.022 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

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

vPvB Substances: None - PBT Substances: None

**12.6. Endocrine disrupting properties**

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

**12.7. Other adverse effects**

None

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

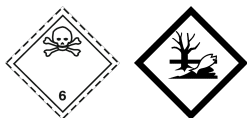
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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**SECTION 14: Transport information**

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<b>14.1. UN number or ID number</b>	
ADR-UN Number:	1588
IATA-UN Number:	1588
IMDG-UN Number:	1588
<b>14.2. UN proper shipping name</b>	
ADR-Shipping Name:	CYANIDES, INORGANIC, SOLID, N.O.S.(Potassium dicyanoargentate)
IATA-Shipping Name:	CYANIDES, INORGANIC, SOLID, N.O.S.(Potassium dicyanoargentate)
IMDG-Shipping Name:	CYANIDES, INORGANIC, SOLID, N.O.S.(Potassium dicyanoargentate)
<b>14.3. Transport hazard class(es)</b>	
ADR-Class:	6.1
ADR - Hazard identification number:	66
IATA-Class:	6.1
IATA-Label:	6.1
IMDG-Class:	6.1
<b>14.4. Packing group</b>	
ADR-Packing Group:	I
IATA-Packing group:	I
IMDG-Packing group:	I
<b>14.5. Environmental hazards</b>	
ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
IMDG-EmS:	F-A, S-A
<b>14.6. Special precautions for user</b>	
ADR-Subsidiary hazards:	-
ADR-S.P.:	47 274
ADR-Transport category (Tunnel restriction code):	1 (C/E)
IATA-Passenger Aircraft:	666
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	673
IATA-S.P.:	A3 A13
IATA-ERG:	6L
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A Category A Category A Category A Category D SW1 SW2
IMDG-Segregation:	SG35 SGG6
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
N.A.	

### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878



Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
Product belongs to category: H1, E1

#### 15.2. Chemical safety assessment

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

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### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H290 May be corrosive to metals.  
H300 Fatal if swallowed.  
H311 Toxic in contact with skin.  
H330 Fatal if inhaled.  
H314 Causes severe skin burns and eye damage.  
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.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 1	3.1/1/Inhal	Acute toxicity (inhalation), Category 1

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Acute Tox. 1	3.1/1/Oral	Acute toxicity (oral), Category 1
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.