

SAFETY DATA SHEET  
GILDING SALTS  
Page 1 of 11

Compilation date: 12/02/2015  
Revision date: 01/10/2018  
Revision No: 5

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

**1.1 Product Identifier**

**Product name:** GILDING SALTS  
**REACH registered number(s):** 01-2119486407-29-XXXX CAS  
**CAS number:** 151-50-8  
**EINECS number:** 205-792-3  
**Index number:** 006-007-00-5

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

**Use of substance / mixture:** PC14: Metal surface treatment products, including galvanic and electroplating products.  
PC19: Intermediate. PC21: Laboratory chemicals.

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

**Company Name:** ALISCO COMPANY LLP  
**Address:** PO Box 6166  
Warwick CV34 9PN  
United Kingdom  
**Telephone Number:** 01926 359930  
**Email:** [sales@alisco.co.uk](mailto:sales@alisco.co.uk)

**1.4. Emergency telephone number**

**Emergency telephone no:** 0777 552 3332 (office hours only)

**Section 2: Hazards identification**

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

**Classification under CLP:** Acute Tox. 1: H300+H310+H330; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Met. Corr. 1: H290; STOT RE 1: H372; STOT SE 1: H370; -: EUH031  
**Most important adverse effects:** Contact with acids liberates toxic gas. May be corrosive to metals. Fatal if swallowed, in contact with skin or if inhaled Causes damage to organs (brain, heart, testes.) (All routes.). Causes damage to organs ([thyroid]) through prolonged or repeated exposure (through all routes). Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

## GILDING SALTS

Page 2 of 11

### 2.2. Label elements

#### Label elements:

- Hazard statements:** EUH031: Contact with acids liberates toxic gas.  
H290: May be corrosive to metals.  
H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled  
H370: Causes damage to organs (brain, heart, testes.) (All routes.).  
H319: Causes serious eye irritation.  
H372: Causes damage to organs ([thyroid]) through prolonged or repeated exposure (through all routes).  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.
- Hazard pictograms:** GHS05: Corrosion  
GHS06: Skull and crossbones  
GHS08: Health hazard  
GHS09: Environmental



- Signal words:** Danger
- Precautionary statements:** P260: Do not breathe dust.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER.  
P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P284: (in case of inadequate ventilation) Wear respiratory protection.  
P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor.  
P361+P364: Take off immediately all contaminated clothing and wash it before reuse.  
P273: Avoid release to the environment.

### 2.3 Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.1 Substances

**Chemical identity:** POTASSIUM CYANIDE >10%  
**CAS number:** 151-50-8  
**EINECS number:** 205-792-3  
**REACH registered number(s):** 01-2119486407-29-XXXX

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# SAFETY DATA SHEET

## GILDING SALTS

Page 3 of 11

**Description** potassium dicyanoargentate <1%  
**CAS No.** 506-61-6  
**EC number:** 208-047-0  
**Index number:** 006-007-00-5

**Description** potassium dicyanoaurate(I) 2-5%  
**CAS No.** 13967-50-5  
**EC number:** 237-748-4

**Chemical identity:** SODIUM CARBONATE <5% **This product has no classification under CLP**  
**CAS number:** 497-19-8  
**REACH registered no's:** 01-2119485498-19-XXXX

### 4.1 Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

### 4.2 Most important symptoms and effect, both acute and delayed

- Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.
- Eye contact:** There may be severe pain. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure. Breathing may stop.

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

**Immediate / special treatment:** Immediate medical attention is required. Treatment: Prevention of absorption and checking of vital functions only in the absence of risk to self protection! Rapid treatment with antidotes can save lives and has priority over removal of poison!

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# SAFETY DATA SHEET

## GILDING SALTS

Page 4 of 11

### Section 5: Fire-fighting measures

#### 5.1 Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

#### 5.2 Special hazards arising from the substance or mixture

**Exposure hazards:** Toxic. In combustion emits toxic fumes

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

### Section 6. Accidental release measures

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

**Personal precautions:** Notify the police and fire brigade immediately. Evacuate the area immediately. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

### Section 7. Handling and storage

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# SAFETY DATA SHEET

## GILDING SALTS

Page 5 of 11

### 7.1 Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area.  
Avoid the formation or spread of dust in the air. Do not handle in a confined space.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging

### 7.3. Specific end use(s)

**Specific end use(s):** Refer to Section 1

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Workplace exposure limits

#### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	5mg/m3		5mg/m3	

### DNEL/PNEC Values

#### POTASSIUM CYANIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (Long term)	0.94 mg/cu.m	Workers	Systemic
DNEL	Inhalation (Short term)	12.5 mg/cu.m	Workers	Systemic
DNEL	Dermal (Long term)	0.14 mg/kg/day	Workers	Systemic
DNEL	Dermal (Short term)	4.03 mg/kg/day	Workers	Systemic
PNEC	Fresh water	1 µg/l		
PNEC	Marine water	1 µg/l		
PNEC	Intermittent release	5 µg/l		
PNEC	STP	50 µg/l		
PNEC	Sediment (Freshwater)	4 µg/kg		
PNEC	Sediment (Marine water)	4 µg/kg		
PNEC	Soil	7 µg/kg		

#### Hazardous ingredients:

#### POTASSIUM CYANIDE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (Long term)	0.94 mg/cu.m	Workers	Systemic
DNEL	Inhalation (Short term)	12.5 mg/cu.m	Workers	Systemic
DNEL	Dermal (Long term)	0.14 mg/kg/day	Workers	Systemic
DNEL	Dermal (Short term)	4.03 mg/kg/day	Workers	Systemic
PNEC	Fresh water	1 µg/l	µg/l	
PNEC	Marine water	1 µg/l		

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Tel. 01926 359930

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# SAFETY DATA SHEET

## GILDING SALTS

Page 6 of 11

PNEC	Intermittent release	5 µg/l		
PNEC	STP	50 µg/l		
PNEC	Sediment (Freshwater)	4 µg/kg		
PNEC	Sediment (Marine water)	4 µg/kg		
PNEC	Soil	7 µg/kg		

### 8.2 Exposure controls

- Engineering measures:** Ensure there is exhaust ventilation in the immediate area to extract dust & fumes produced by the product. A powered fume enclosure is recommended.
- Respiratory protection:** Use a full face self-contained breathing respirator which must be available in case of emergency. Particle filter class P1 (EN143).
- Hand protection:** Protective gloves, Use Natural Rubber, Neoprene, Butyl, PVC or Viton gloves. Splash protection: (breakthrough time > 60 minutes). The condition of gloves should be checked prior to each use. The selection of gloves should be made with consideration to working practises and the duration of exposure. To comply with EN388:2016 and 374-1:2016, min thickness 2.1mm, nitrile/PVC/Butyl/rubber.
- Eye protection:** Wear Chemical Splash Safety goggles with side-shields. Ensure eye bath is to hand.
- Skin protection:** Protective clothing. Wear a chemical protective suit, Laboratory coat, full length trousers and closed toe rubber or leather shoes.
- Environmental:** Ensure all engineering measures mentioned in section 7 of SDS are in place. Ensure emissions from ventilation or equipment comply with environmental protection legislation

## Section 9. Physical and chemical properties

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

<b>State:</b>	Solid	
<b>Colour:</b>	White	
<b>Odour:</b>	Characteristic odour	
<b>Evaporation rate:</b>	No data available.	
<b>Oxidising:</b>	No data available.	
<b>Solubility in water:</b>	400 g/l @20 Deg C.	
<b>Viscosity:</b>	No data available.	
<b>Boiling point/range°C:</b>	No data available.	<b>Melting point/range°C:</b> 634.5 Deg C
<b>Flammability limits %: lower:</b>	No data available.	<b>upper:</b> No data available.
<b>Flash point°C:</b>	No data available.	<b>Part.coeff. n-octanol/water:</b> log Kow: <a href="#">-0.25@20C</a>
<b>Autoflammability°C:</b>	No data available.	<b>Vapour pressure:</b> No data available.
<b>Relative density: 1.56 pH:</b>	No data available.	
<b>VOC g/l:</b>	No data available.	

### 9.2. Other information

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# SAFETY DATA SHEET

## GILDING SALTS

Page 7 of 11

Other information: Not applicable

### Section 10. Stability and reactivity

#### 10.1 Reactivity

Reactivity: Stable under recommended transport or storage conditions.

#### 10.2 Chemical stability

Chemical stability: Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions: In contact with water and acids releases hydrogen cyanide, which creates explosive mixture with air.

#### 10.4 Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

#### 10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes

### Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

#### Toxicity Values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	6.6	mg/kg
ORAL	RAT	LD50	6.8	mg/kg

#### Hazardous ingredients:

#### POTASSIUM CYANIDE

DERMAL	RBT	LD50	6.6	mg/kg
ORAL	RAT	LD50	6.8	mg/kg

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## SAFETY DATA SHEET

## GILDING SALTS

Page 8 of 11

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**Relevant hazards for product:**

Hazard	Route	Basis
Acute toxicity (ac. Tox. 2)	INH DRM ING	Hazardous: calculated
Acute toxicity (ac. Tox. 1)	OPT INH DRM	Hazardous: calculated
STOT- single exposure		Hazardous: calculated
STOT- repeated exposure		Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure. Breathing may stop.

**Other information:** May cause nausea, headache, dizziness and intoxication.

**Section 12. Ecological Information****12.1 Toxicity****Ecotoxicity values:**

Species	Test	Value	Units
Chlamydomonas sp.	10 day NOEC	0.1	Mg/l
Chironomus riparius	48H EC50	12.4	µg/l
Three-spined stickleback	96H LC50	98.8-103.8	µg/l
Activated sludge	3H IC50	5.3	Mg/l

**Hazardous ingredients:****POTASSIUM CYANIDE**

Activated sludge	3H IC50	5.3	Mg/l
Chironomus riparius	48H EC50	12.5	µg/l
Chlamydomonas sp	10day NOEC	0.1	Mg/l
Three-spined stickleback	96H LC50	98.8-103.8	µg/l

**12.2 Persistence and degradability****Persistence and degradability:**

Biodegradable

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# SAFETY DATA SHEET

## GILDING SALTS

Page 9 of 11

### 12.3 Bioaccumulative potential

**Bio accumulative potential:** No bioaccumulation potential.

### 12.4 Mobility in soil

**Mobility:** No data available.

### 12.5 Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6 Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Recovery operations:** Not applicable.

**Waste code number:** 06 03 11

**Disposal of packaging:** Hazardous. Do not re-use containers. Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

## Section 14: Transport information

### 14.1 UN Number

**UN Number:** UN1680

### 14.2 UN proper shipping name

**Shipping Name:** POTASSIUM CYANIDE, SOLID

### 14.3 Transport hazard class(es)

**Transport Class:** 6.1

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# SAFETY DATA SHEET

## GILDING SALTS

Page 10 of 11

### 14.4 Packing group

Packing Group: 1

### 14.5 Environmental Hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

### 14.6 Special precautions for user

Special precautions: No special precautions.

Tunnel code: C/E

Transport category: 1

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

Transport in bulk: NOT APPLICABLE

## Section 15. Regulatory information

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

Specific regulations: NOT APPLICABLE

### 15.2 Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

## Section 16. Other information

### Other information

**Other information:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH031: Contact with acids liberates toxic gas.

H290: May be corrosive to metals.

H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled

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# SAFETY DATA SHEET

## GILDING SALTS

Page 11 of 11

H370: Causes damage to organs ({{{0||message=<or state all organs affected, if known>||filter=(\_)?ORGAN\_.+}}}) ({{{1||message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>||filter=(\_)?EXP\_ROUTE\_.+}}}).

H372: Causes damage to organs ({{{0||message=<or state all organs affected, if known>||filter=(\_)?ORGAN\_.+}}}) through prolonged or repeated exposure ({{{1||message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>||filter=(\_)?EXP\_ROUTE\_.+}}}). H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

**Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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