

Printing date 15.05.2018

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

- · 1.1 Product identifier
- Trade name: Savor Farbgoldbaeder gebrauchsfertig 1N14, 2N18, 3N, 4N, 5N, 5N rot, FF, Feuervergoldung
 - Savor color gilding bath ready to use 1N14, 2N18, 3N, 4N, 5N, 5N red, FF, fire gilding
- · Article number:
- 3100100102, 3100100202, 3100100302, 3100100402, 3100100502, 3100100702, 3100100602, 3100103102
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture Galvanic bath
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Wieland Edelmetalle GmbH Schwenninger Str. 13 75179 Pforzheim Telefon +49 (07231)-1393-0, Telefax +49 (07231)-1393-100
- Further information obtainable from: Wieland Edelmetalle GmbH www.wieland-edelmetalle.de msds@wieland-edelmetalle.de
- **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



· Signal word Warning

- Hazard-determining components of labelling: potassium cyanide potassium dicyanoaurate
 Hazard statements
 H302+H312 Harmful if swallowed or in contact with skin.
 H412 Harmful to aquatic life with long lasting effects.
 Precautionary statements
- P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water.



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P501 Dispose of contents/container in accordance with local/regional/national/international regulations. • 2.3 Other hazards

• Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
CAS: 151-50-8 EINECS: 205-792-3	potassium cyanide			
	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; Acute 1, H400; Aquatic Chronic 1, H410			
CAS: 13967-50-5	potassium dicyanoaurate	$\leq 1\%$		
EINECS: 237-748-4	 ♦ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ♦ Met. Corr.1, H290; Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Skin Irrit. 2, H315 			

SECTION 4: First aid measures

 \cdot 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing:
- Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

 \cdot 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- \cdot 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- \cdot 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture Hydrogen cyanide (HCN)
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- \cdot Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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· 6.3	3 N	lethods	and	material	for	containment	and	cleaning	up:
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Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

• Information about fire - and explosion protection: The product is not flammable.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

• Information about storage in one common storage facility: Do not store together with acids.

• Further information about storage conditions: Keep receptacle tightly sealed.

· Storage class: 10-13

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

\cdot DNELs

13967-50-5 potassium dicyanoaurate

	1 0	
Oral	DNEL(Comm.)akut	4.5 mg/kg (-) (CN)
	DNEL(Com.)longterm	0.05 mg/kg (-) (CN)
	DNEL(Industrie) akut	
	DNEL(Indust.)longt.	0.05 mg/kg (-) (CN)

· PNECs

13967-50-5 potassium dicyanoaurate

 PNEC (Industrie)
 0.03 μg/l (H2O) (CN)

 PNEC (Commercial)
 0.03 μg/l (H2O) (CN)

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Respiratory protection: Not necessary if room is well-ventilated.

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· Protection of hands:



Protective gloves

• Material of gloves Chloroprene rubber, CR Butyl rubber, BR Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

 \cdot Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. Value for the permeation: Level ≤ 6

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chem	ical properties	
9.1 Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Fluid	
Colour:	Colourless	
· Odour:	Product specific	
· pH-value at 20 °C:	10	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	:: 100 °C	
· Flash point:	Not applicable.	
Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Oxidising properties	None	
Density at 20 °C:	1,01 g/cm ³	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Solvent content:		
Organic solvents:	0,0 %	
Water:	> 95 %	
· 9.2 Other information	No further relevant information available.	

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SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \cdot 10.3 Possibility of hazardous reactions Contact with acids releases toxic gases.
- \cdot 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- \cdot **10.6 Hazardous decomposition products:** Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Harmful if swallowed or in contact with skin.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)					
Oral	LD50	1,637 mg/kg (rat)			
Dermal	LD50	1,637 mg/kg (rat) 1,740 mg/kg 117 mg/l			
Inhalative	LC50/4 h	117 mg/l			

151-50-8 potassium cy	anide
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Oral		5 mg/kg (rat)
	LDLO	2.86 mg/kg (human) (RTECS)
	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.5 mg/l (ATE)

13967-50-5 potassium dicyanoaurate

		29 mg/kg (rat)
Dermal	LD50	100 mg/kg (human) (CN)
		0.5 mg/l (ATE)
	LC50	524 mg/kg (10min) (human) (HCN)

· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Based on available data, the classification criteria are not met.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• 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.

• 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

· 12.1 Toxicity

· Aquatic toxicity:

151-50-8 potassium cyanide

LC50 0.45 mg/l (96h) (Lepomis macrochirus (bluegrill))

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EC50	2 mg/l (48h) (Daphnia magna (water flea))			
EC50	1.8-1.9 mg/l (72h) (Eutosiphon sulcatum) (CN)			
IC50	0.03 mg/l (8d) (Sc.quadricauda)			
13967	-50-5 potassium dicyanoaurate			
LC50	0.083 mg/l (96h) (Lepomis macrochirus (bluegrill)) (CN)			
LC50	0.12 mg/l (96h) (Pimephales promelas (fathead minnow)) (CN)			
	0.057 mg/l (96h) (Onchorhynchus mykiss (rainbow trout)) (CN)			
EC50	0.041 mg/l (48h) (Daphnia magna (water flea)) (CN)			
EC50	1.8 mg/l (72h) (Eutosiphon sulcatum) (CN)			
IC50	0.03 mg/l (8d) (Sc.quadricauda) (CN)			
· 12.3 E · 12.4 N	Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Tobility in soil No further relevant information available. Tobility in soil information:			
· Gener Water Do no	ral notes: hazard class 2 (German Regulation) (Self-assessment): hazardous for water t allow product to reach ground water, water course or sewage system.			
Danger to drinking water if even small quantities leak into the ground. • 12.5 Results of PBT and vPvB assessment • PBT: Not applicable.				
· vPvB	Not applicable. Other adverse effects No further relevant information available.			

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must be specially treated adhering to official regulations. Contact manufacturer for recycling information.

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. • **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

· 14.1 UN-Number		
· ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Void	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	



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 14.5 Environmental hazards: Marine pollutant: 	No	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H290 May be corrosive to metals. H300 Fatal if swallowed. H310 Fatal in contact with skin. H315 Causes skin irritation. 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. · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 2: Acute toxicity - Category 2 Acute Tox. 4: Acute toxicity - Category 4 (Contd. on page 8)

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Acute Tox. 1: Acute toxicity – Category 1	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3	
* Data compared to the previous version altered.	