

Trade name: Pre-Gold Bath JE287 Au/Fe - 3 g/L Au

Version: 1 / WORLD

Date revised: 05.05.2025

Substance number: 272.0000

Replaces Version: - / WORLD

Print date: 27.05.2025

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

1.1. Product identifier

Pre-Gold Bath JE287 Au/Fe - 3 g/L Au

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

Use of the substance/preparation

Galvanic Bath, do not use for private purposes, Food, beverages and animal feed.

Identified Uses

PC14

Metal surface treatment products, including galvanic and electroplating products

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Jentner Plating Technology GmbH

Johann-Staib-Straße 2

75179 Pforzheim

Telephone no. +49 (0)7231/4180940

Information provided by / telephone Laboratory department; Opening hours 8:00-16:00

E-mail address of person responsible sales@jentner.de

for this SDS

1.4. Emergency telephone number

Poisoning Information Center Freiburg: +49(0)761/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H311

Skin Corr. 1 H314

Eye Dam. 1 H318

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H311

Toxic in contact with skin.

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H314 Causes severe skin burns and eye damage.
H412 Harmful 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.
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 or doctor.
P501.1 Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains potassium-III-cyanid (57,8% Au); sulphuric acid ... %
EUH208 Contains potassium-III-cyanid (57,8% Au), May produce an allergic reaction.

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****sulphuric acid ... %**

CAS No. 7664-93-9
EINECS no. 231-639-5
Registration no. 01-2119458838-20
Concentration ≥ 1 < 2,5 %
Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318
Skin Corr. 1A H314

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319 $\geq 5 < 15$ %
Skin Corr. 1A H314 ≥ 15 %
Skin Irrit. 2 H315 $\geq 5 < 15$ %

ATE oral 2,14 mg/kg

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

potassium-III-cyanid (57,8% Au)

CAS No. 14263-59-3
EINECS no. 238-145-9
Concentration $\geq 0,5$ < 0,96 %
Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 2 H300
Acute Tox. 2 H330
Acute Tox. 1 H310
STOT RE 2 H373
Eye Dam. 1 H318
Aquatic Acute 1 H400
Aquatic Chronic 1 H410
Skin Irrit. 2 H315
Skin Sens. 1 H317

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| | | | |
|-------|-----------------------|------|-------|
| ATE | oral | 5 | mg/kg |
| ATE | dermal | 5 | mg/kg |
| cATpE | inhalative, Dust/Mist | 0,05 | mg/l |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Storage classes

Storage class according to TRGS 510 6.1B

Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

sulphuric acid ... %

| | |
|-------------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
| Reference group | Human |
| Route of exposure | inhalative |
| Mode of action | Chronic effects |

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| | | |
|---------------|------|-------------------|
| Concentration | 0,05 | mg/m ³ |
|---------------|------|-------------------|

| | |
|---------------|--------------------------------|
| Type of value | Derived No Effect Level (DNEL) |
|---------------|--------------------------------|

| | |
|-----------------|-------|
| Reference group | Human |
|-----------------|-------|

| | |
|-------------------|------------|
| Route of exposure | inhalative |
|-------------------|------------|

| | |
|----------------|---------------|
| Mode of action | Acute effects |
|----------------|---------------|

| | | |
|---------------|-----|-------------------|
| Concentration | 0,1 | mg/m ³ |
|---------------|-----|-------------------|

Predicted No Effect Concentration (PNEC)**sulphuric acid ... %**

| | |
|---------------|------|
| Type of value | PNEC |
|---------------|------|

| | |
|------|------------|
| Type | Freshwater |
|------|------------|

| | |
|------------|------------|
| Conditions | Short term |
|------------|------------|

| | | |
|---------------|-------|------|
| Concentration | 0,003 | mg/l |
|---------------|-------|------|

| | |
|---------------|------|
| Type of value | PNEC |
|---------------|------|

| | |
|------|-----------|
| Type | Saltwater |
|------|-----------|

| | |
|------------|------------|
| Conditions | Short term |
|------------|------------|

| | | |
|---------------|---|------|
| Concentration | 0 | mg/l |
|---------------|---|------|

| | |
|---------------|------|
| Type of value | PNEC |
|---------------|------|

| | |
|------|------------------------------|
| Type | Sewage treatment plant (STP) |
|------|------------------------------|

| | |
|------------|------------|
| Conditions | Short term |
|------------|------------|

| | | |
|---------------|-----|------|
| Concentration | 8,8 | mg/l |
|---------------|-----|------|

| | |
|---------------|------|
| Type of value | PNEC |
|---------------|------|

| | |
|------|---------------------|
| Type | Freshwater sediment |
|------|---------------------|

| | |
|------------|------------|
| Conditions | Short term |
|------------|------------|

| | | |
|---------------|-------|-------|
| Concentration | 0,002 | mg/kg |
|---------------|-------|-------|

| | |
|---------------|------|
| Type of value | PNEC |
|---------------|------|

| | |
|------|-----------------|
| Type | Marine sediment |
|------|-----------------|

| | |
|------------|------------|
| Conditions | Short term |
|------------|------------|

| | | |
|---------------|-------|-------|
| Concentration | 0,002 | mg/kg |
|---------------|-------|-------|

8.2. Exposure controls**General protective and hygiene measures**

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

Chemical resistant gloves

Appropriate Material neoprene

Eye protection

Safety glasses with side protection shield; Face shield

Body protection

Clothing as usual in the chemical industry. Protective shoes

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state liquid
Colour light green
Odour odourless

Melting point
 Remarks not determined

Freezing point
 Remarks not determined

Boiling point or initial boiling point and boiling range
 Remarks not determined

Flammability
 evaluation not determined

Upper and lower explosive limits
 Remarks not determined

Flash point
 Remarks Not applicable

Ignition temperature
 Remarks not determined

Decomposition temperature
 Remarks not determined

pH value
 Value < 1

Viscosity
 Remarks not determined

Solubility(ies)
 Remarks not determined

Partition coefficient n-octanol/water (log value)
 Remarks not determined

Vapour pressure
 Remarks not determined

Density and/or relative density
 Remarks not determined

Relative vapour density
 Remarks not determined

9.2. Other information

Odour threshold
 Remarks not determined

Evaporation rate (ether = 1) :
 Remarks not determined

Solubility in water
 Remarks not determined

Explosive properties
 evaluation not determined

Oxidising properties
 Remarks not determined

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Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

| | | |
|-----|---------|-------|
| ATE | 136,642 | mg/kg |
| | 4 | |

Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)**potassium-III-cyanid (57,8% Au)**

| | | |
|---------|-----|---------|
| Species | rat | |
| LD50 | = | 5 mg/kg |

sulphuric acid ... %

| | | |
|---------|-----|-------------|
| Species | rat | |
| LD50 | | 2,140 mg/kg |

Acute dermal toxicity

| | | |
|-----|---------|-------|
| ATE | 963,391 | mg/kg |
| | 1 | |

Method calculated value (Regulation (EC) No. 1272/2008)

Acute dermal toxicity (Components)**potassium-III-cyanid (57,8% Au)**

| | | |
|---------|------------|---------|
| Species | guinea pig | |
| LD50 | = | 5 mg/kg |

Acute inhalational toxicity

| | | |
|-----|--------|------|
| ATE | 9,6339 | mg/l |
|-----|--------|------|

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

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

Acute inhalative toxicity (Components)**potassium-III-cyanid (57,8% Au)**

| | |
|---------|-----|
| Species | rat |
|---------|-----|

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LC50 = 0,05 mg/l
Duration of exposure 4 h

Skin corrosion/irritation

evaluation corrosive
Remarks The classification criteria are met.

Serious eye damage/irritation

evaluation corrosive
Remarks The classification criteria are met.

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

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

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity****General information**

not determined

Daphnia toxicity (Components)

sulphuric acid ... %
EC50 > 100 mg/l
Duration of exposure 48 h

Algae toxicity (Components)

sulphuric acid ... %
Species Algae
ErC50 > 100 mg/l

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Duration of exposure 72 h

12.2. Persistence and degradability**General information**

not determined

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil**General information**

not determined

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

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

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| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|----------------------------------|---|---|---|
| 14.1. UN number or ID number | 2922 | 2922 | 2922 |
| 14.2. UN proper shipping name | CORROSIVE LIQUID, TOXIC, N.O.S. (sulphuric acid ... %, potassium-III-cyanid (57,8% Au)) | CORROSIVE LIQUID, TOXIC, N.O.S. (sulphuric acid ... %, potassium-III-cyanid (57,8% Au)) | CORROSIVE LIQUID, TOXIC, N.O.S. (sulphuric acid ... %, potassium-III-cyanid (57,8% Au)) |
| 14.3. Transport hazard class(es) | 8 | 8 | 8 |
| Subsidiary risk | 6.1 | 6.1 | 6.1 |
| Label | | | |
| 14.4. Packing group | II | II | II |
| Limited Quantity | 1 l | 1 l | 0.5 L |
| Transport category | 2 | | |
| 14.5. Environmental hazards | - | | |
| Tunnel restriction code | E | | |

SECTION 15: Regulatory information

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

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

| | | |
|-------------------|------|--------------------|
| Acute Tox. 3 | H311 | Calculation method |
| Skin Corr. 1 | H314 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

Hazard statements listed in Chapter 2/3

| | |
|------|-----------------------------|
| H300 | Fatal if swallowed. |
| H310 | Fatal in contact with skin. |

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| | |
|------|--|
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

CLP categories listed in Chapter 2/3

| | |
|-------------------|--|
| Acute Tox. 1 | Acute toxicity, Category 1 |
| Acute Tox. 2 | Acute toxicity, Category 2 |
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Skin Corr. 1 | Skin corrosion, Category 1 |
| Skin Corr. 1A | Skin corrosion, Category 1A |
| Skin Irrit. 2 | Skin irritation, Category 2 |
| Skin Sens. 1 | Skin sensitization, Category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, Category 2 |

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.