

Cu, Ag, Ni Brazing Alloys

According to Regulation (EC) No.1907/2006 (REACH) with its amendment Regulation (EC) No.453/2010

Date of issue: May 30, 2015

Version: 1.4

SECTION 1: Chemical product and company identification

1.1 Product Identifier

Product form : Article
Product Name : Silver Brazing alloys, Silver Copper Nickel Brazing alloys

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

1.2.1 Relevant identified uses

Industrial/Professional use spec. : Industrial
For professional use only
Use of the substance/mixture : Brazing
Function or use category : Brazing agent

1.2.2 Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Coining, Inc.
15 Mercedes Drive
Montvale, NJ 07645
Tel: +1(201)7914020
www.coininginc.com
martin.oud@ametek.com

1.4. Emergency Telephone Number

Emergency Number : CHEMTREC: 800-424-9300 for US/703-527-3887 outside US
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call
CHEMTREC-Day of Night.

SECTION 2: Hazards identification

2.1. Classification of the Substances or Mixture

Classification according to Directive 67/548/EEC, Regulation (EC)No1272/2008-CLP
: Skin sens. (cat 1)
Carcinogenicity (cat 2)
Specific Target Organ Toxicity-Repeated exposure (cat 1)

Adverse physicochemical, human health and environmental effects

No additional information available.

2.2. Label Elements

Labeling according to Directive 67/548/EEC, Regulation (EC)No1272/2008-CLP

Hazard Pictograms GHS



Signal Word: Danger

Hazard Statements

H317 May cause allergic skin reaction

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H351 Suspect of causing cancer
H372 Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P270 Do not eat, drink or smoke when using this product
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

| Name | Product Identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------|---|--------|---|
| Copper | (CAS No) 7440-50-8 (EC no) 231-159-6;918-168-7 | 0.1-95 | Solid, not classified |
| Silver | (CAS No) 7440-22-4 (EC no) 231-131-3 | 0.1-95 | Solid, not classified |
| Nickel | (CAS No) 7440-02-0 (EC no) 231-111-4 (EC index no) 028-002-00-7 | 0.1-20 | Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 |

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show there label where possible).

First-aid measures after inhalation : When symptoms occur; go into open air and ventilate suspected area.

First-aid measures after skin contact : Removal of solidified molten material from skin requires medical assistance. Cool skin rapidly with cold water after contact with molten product

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting.

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

| | |
|--------------------------------------|--|
| Symptoms/injuries | : Under normal conditions of use not expected to present a significant hazard. Under milling, or physical alteration metal dusts may be produced that cause irritation of the respiratory tract, skin, and may be harmful. Molten material may release toxic and irritating fumes. |
| Symptoms/injuries after inhalation | : Not expected to be a primary route of exposure. The primary acute health hazard associated with this product would be the potential for exposure to fumes during metal processing operations. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath. |
| Symptoms/injuries after skin contact | : Skin contact is not considered a potential route of exposure. The primary acute health hazard associated with this product would be the potential for exposure to fumes during metal processing operations. Where possible allow molten material to solidify naturally. Removal of solidified molten material from skin requires medical assistance. |
| Symptoms/injuries after eye contact | : Not expected to be a primary route of exposure. Dust generated from material cutting may cause a slight irritation. Slivers may be generated, which could cause mechanical irritation or injure the eye. |
| Symptoms/injuries after ingestion | : Ingestion is not considered a potential route of exposure. |
| Chronic symptoms | Silver: Chronic skin contact or ingestion of silver dust, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes. Copper: Overexposure to fumes may cause metal fume fever (chills, muscle aches, nausea, fever, dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair. Tissue damage of mucous membranes may follow chronic dust exposure. Nickel: May cause a form of dermatitis known as nickel itch. Intestinal irritation, which may cause disorders, convulsions and asphyxia. |

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

If medical advice is needed, have product container or label at hand.

SECTION 5: Fire fighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Does not burn. Use extinguishing media appropriate for surrounding fire |
| Unsuitable extinguishing media | : None known. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------|---|
| Fire hazard | : Dust, chips, or ribbons can be ignited more easily, by an ignition source, by improper machining, or by spontaneous combustion if finely divided and damp |
|-------------|---|

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5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For non-emergency personnel

- Protective equipment : Use appropriate personal protection equipment (PPE)
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area

6.2. Environmental precautions

- Avoid release to the environment

6.3. Methods and material for containment and clean up

- For containment : If metal is in molten form, allow cooling and collecting as a solid. If the metal is in solid form collect for remelting purposes.
- Methods for cleaning up : Clear up spills. Immediately and dispose of waste safely.

6.4 Reference to other sections

- See heading 8, exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.
Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, cool and well-ventilated place.
- Incompatible products : Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

- Brazing.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Copper (7440-50-8) | | |
|--------------------|----------------------------------|-----------------------|
| Austria | MAK (mg/m ³) | 0.4 mg/m ³ |
| Belgium | Limit value (mg/m ³) | 1 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 0.1 mg/m ³ |

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| | | |
|------------------------------|---|------------------------|
| France | VLE (mg/m ³) | 2 mg/m ³ |
| France | VME (mg/m ³) | 1 mg/m ³ |
| Italy – Portugal – USA ACGHI | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ |
| Latvia | OEL TWA (mg/m ³) | 0.5 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 1 mg/m ³ |
| The Netherlands | MAC TGG 8H (mg/m ³) | 0.1 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 1 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 2 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 0.1 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0.1 mg/m ³ |
| Finland | HTP-arvo (8h) (mg/m ³) | 0.1 mg/m ³ |
| Hungary | AK-érték | 0.1 mg/m ³ |
| Hungary | CK-érték | 0.4 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 1 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 2 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 0.2 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 0.50mg/m ³ |
| Romania | OEL STEL (mg/m ³) | 1.50 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0.1 mg/m ³ |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 0.2 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0.2 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 1mg/m ³ |

| Silver (7440-22-4) | | |
|------------------------------|---|--|
| Austria | MAK (mg/m ³) | 0.1 mg/m ³ |
| Belgium | Limit value (mg/m ³) | 0.1 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| Cyprus | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| France | VME (mg/m ³) | 0.1 mg/m ³ (indicative limit) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 0.1 mg/m ³ |
| Italy – Portugal – USA ACGHI | ACGIH TWA (mg/m ³) | 0.1 mg/m ³ |
| Italy | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| Latvia | OEL TWA (mg/m ³) | 0.5 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 0.1 mg/m ³ |
| The Netherlands | MAC TGG 8H (mg/m ³) | 0.1 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 0.1 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 0.3 mg/m ³ (calculated) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 0.1 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0.01 mg/m ³ |
| Finland | HTP-arvo (8h) (mg/m ³) | 0.1 mg/m ³ |
| Hungary | AK-érték | 0.1 mg/m ³ |
| Hungary | CK-érték | 0.4 mg/m ³ |

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| | | |
|-----------|---|------------------------|
| Ireland | OEL (8 hours ref) (mg/m ³) | 0.1 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 0.1 mg/m ³ |
| Poland | NDS (mg/m ³) | 0.05 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0.1 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0.1 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 0.1mg/m ³ |

| Nickel (7440-02-0) | | |
|------------------------------|---|--|
| Belgium | Limit value (mg/m ³) | 1 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 0.05 mg/m ³ |
| France | VME (mg/m ³) | 1 mg/m ³ (metal gratings) |
| Italy – Portugal – USA ACGHI | ACGIH TWA (mg/m ³) | 1.5 mg/m ³ |
| Latvia | OEL TWA (mg/m ³) | 0.05 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 1 mg/m ³ (manufacturing, commercialization, and use use restrictions under REACH) |
| United Kingdom | WEL TWA (mg/m ³) | 0.5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 1.5 mg/m ³ (calculated) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 0.5 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0.05 mg/m ³ |
| Finland | HTP-arvo (8h) (mg/m ³) | 1 mg/m ³ |
| Hungary | AK-érték | 0.1 mg/m ³ |
| Hungary | CK-érték | 0.1 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 4 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 0.5 mg/m ³ |
| Poland | NDS (mg/m ³) | 0.25 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 0.10mg/m ³ |
| Romania | OEL STEL (mg/m ³) | 0.50 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0.5 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 1.5 mg/m ³ |
| Portugal | OEL chemical category (PT) | A5 – Not Suspected as a Human Carcinogen |

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment :

: Protective goggles. Insulated gloves



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|------------------------|---|
| Hand protection | : If material is hot, wear thermally resistant protective gloves. |
| Eye protection | : During metal processing, chemical goggles or safety glasses. |
| Respiratory protection | : During metal processing, wear approved mask. |
| Other information | : When using, do not eat, drink or smoke. |

SECTION 9: Physical and chemical properties

9.1. Information on basis physical and chemical properties

| | |
|--|---|
| Physical state | : Solid |
| Appearance | : Preforms, squares, rings, discs, wire |
| Color | : Metallic, silvery or coppery |
| Odor | : Odorless |
| Odor threshold | : Not applicable |
| pH | : Neutral |
| Relative evaporation rate (butylacetate=1) | : Not applicable |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Self ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor pressure at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : Insoluble |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

9.2 Other information: No other information available.

SECTION 10: Stability and reactivity

| | |
|--|---|
| 10.1 Reactivity | : Hazardous reactions will not occur under normal conditions. |
| 10.2 Chemical stability | : Stable under normal conditions. Dust, chips or ribbons can be ignited more easily, by an ignition source, by improper machining, or by spontaneous combustion if finely divided and damp. |
| 10.3 Possibility of hazardous reactions | : Hazardous polymerization will not occur. |

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10.4 Conditions to avoid : High humidity, extremely high temperatures.

10.5 Incompatible materials : Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products : Metal oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Not classified

| Silver (7440-22-4) | |
|---------------------------|-------------|
| LD50 oral rat | >2000 mg/kg |

| Nickel (7440-02-0) | |
|---------------------------|-------------|
| LD50 oral rat | >9000 mg/kg |

Irritation : Not classified

Corrosivity : Not classified

Sensitization : Skin Sens. 1, H317

Repeated dose toxicity : STOT RE 1, H372

Carcinogenicity : Carc. 2, H351

Mutagenicity : Not classified

Toxicity for reproduction : Not classified

SECTION 12: Ecological information

12.1 Toxicity

| Copper (7440-50-8) | |
|--------------------------------|---|
| LC50 fishes 1 | 0.0068 (0.0068-0.0156)mg/l (Exposure time: 96 h-Species: Pimephales promelas) |
| EC50 Daphnia 1 | 0.03mg/l (Exposure time: 48h-Species: Daphnia magna [Static]) |
| EC50 other aquatic organisms 1 | 0.0426 (0.0426-0.0535)mg/l (Exposure time:72 h-Species: Pseudokirchneriella subcapitata [Static]) |
| LC50 fish 2 | 0.3mg/l (Exposure time: 96h –species: Pimephales promelas [Static]) |
| EC50 other aquatic organisms 2 | 0.031(0.031-0.054) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [Static]) |

| Silver (7440-22-4) | |
|---------------------------|---|
| LC50 fishes 1 | 0.00155 (0.00155-0.00293)mg/l (Exposure time: 96 h-Species: Pimephales promelas [Static]) |
| EC50 Daphnia 1 | 0.00024mg/l (Exposure time: 48h-Species: Daphnia magna [Static]) |
| LC50 fish 2 | 0.0062mg/l (Exposure time: 96h –species: Oncorhynchus mykiss [flow-through]) |

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| Nickel (7440-02-0) | |
|--------------------------------|---|
| LC50 fishes 1 | 100 mg/l (Exposure time: 96 h-Species: Brachydanio rerio)] |
| EC50 Daphnia 1 | 100 mg/l (Exposure time: 48h-Species: Daphnia magna) |
| EC50 other aquatic organisms 1 | 0.18 mg/l (Exposure time:72 h-Species: Pseudokirchneriella subcapitata) |
| LC50 fish 2 | 1.3mg/l (Exposure time: 96h –Species: Cyprinus carpio [semi-static]) |
| EC50 Dahnia 2 | 1 mg/l (Exposure time: 48h-Species: Daphnia magna [Static]) |
| EC50 other aquatic organisms 2 | 0.174 (0.174-0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [Static]) |

12.2 Persistence and degradability

| Soldering and Brazing Alloys | |
|-------------------------------------|-----------------|
| Persistence and degradability | Not established |

| Copper (7440-50-8) | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

12.3 Bioaccumulative potential

| Brazing Alloys | |
|---------------------------|-----------------|
| Bioaccumulative potential | Not established |

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal information

13.1 Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national and international regulations.

SECTION 14: Transport information

14.1. UN number : Not regulated for transport.

14.2. UN proper shipping name : Not applicable.

14.3. Transport hazard class(es) : Not applicable.

14.4. Packing group : Not applicable.

14.5. Environmental hazards

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- Other information : No supplementary information available.
- 14.6. Special precaution for user** : Not applicable
- 14.6.1. Overland transport** : Not regulated for transport.
- 14.6.2. Air transport** : Not regulated for transport.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Authorizations and/or restrictions on use (Annex XVII):

Contains no REACH candidate substances.

15.1.2. National regulations

No additional information available.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Other information : This Safety Data Sheet has been established in accordance with the applicable European Union legislation. Classification in accordance with calculation methods of regulation (EC)1272/2008 CLP/EC 1999/45 DPD.

Full text of H- and EUH-phrases:

| | |
|--------------------------------------|--|
| Acute Tox.1 (Inhalation: dust, mist) | Acute toxicity (inhalation: dust, mist) Category 1 |
| Acute Tox.2 (Dermal) | Acute toxicity (dermal) Category 2 |
| Acute Tox.3 (Oral) | Acute toxicity (oral) Category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment-Acute Hazard Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment-Chronic Hazard Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment-Chronic Hazard Category 3 |
| Carc.2 | Carcinogenicity Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Flam. Sol. 1 | Flammable solids Category 1 |
| Pyr. Sol. 1 | Pyrophoric solids Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT Se 3 | Specific target organ toxicity (single exposure) Category 3 |
| H228 | Flammable solid |
| H250 | Catches fire spontaneously if exposed to air |
| H300 | Fatal if swallowed |

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| H310 | Fatal in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H330 | Fatal if inhaled |
| H335 | May cause respiratory irritation |
| H351 | Suspected of causing cancer |
| H372 | Causes 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 |

SDS EU (REACH ANNEX II)

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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