

MATERIAL SAFETY DATA SHEET

MSDS: - Copper Beryllium - Alloy 25, CuBe2 - Emery Low Lead™, Alloy 290, Alloy 60, Alloy 3, Alloy 174,

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

1.1 Product identifier

Trade Name: **CuBe2 - Alloy 25 (C17200), CuBe2 - Emery Low Lead™ (C17210), Alloy 190 (C17200), Alloy 60(C17460), Alloy 3 (C17510), Alloy 174 (C17410)**

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

Copper Beryllium alloys in form of semi-finished products according to the trade names, high conductivity and high strength alloys (depending on the trade name concerned) supplied as solid, compact and non-inhalable metal in the form of slabs or hot or cold rolled strips.

Industrial uses: Uses of substances as such or in preparations at industrial sites. Manufacture of basic metals, including alloys. Manufacture of fabricated metal products, except machinery and equipment. Manufacture of computer, electronic and optical products, electrical equipment. General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment. Electricity, steam, gas water supply and sewage treatment.

1.3 Details of the supplier of the safety data sheet

Lamineries Matthey, branch of Notz Metall AG
Rue Montagu 38,
CH-2520 La Neuveville,
Switzerland
e-mail: sales@matthey.ch
Website: www.matthey.ch

1.4 Information in case of emergency

Tox Info Suisse
From Switzerland: call 145
From abroad: call +41 44 251 51 51

Remarks for information sheet:

Semi-finished products from copper and copper iron-alloys are articles according to Regulation (EC) No. 1907/2006 (REACH Regulation).

For articles there is no legal obligation to issue a safety data sheet. However, to be able to provide information typically included in a safety data sheet also for articles, the present information sheet for articles has been worked out.

We expressly point out that the information sheet for articles is a voluntarily issued information sheet which is not subject to the formal requirements of the REACH Regulation.

2 Hazards identification

2.1 Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to regulation (EC) N° 1272/2008 (CLP-Regulation) as amended

Health hazards	Category	Classification
Acute toxicity, inhalation	Category 1	H334 - May cause allergic or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Carcinogenicity	Category 1B	H350i - May cause cancer by inhalation.
Specific target organ toxicity - repeated exposure	Category 1	H372 - Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.

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Hazard summary: Cancer hazard. May cause an allergic skin reaction. May cause irritation to the respiratory system. Causes damage to organs through prolonged or repeated exposure.

2.2 Label according to Regulation (EC) N°. 1272/2008

Hazard Pictograms



Signal Word:

Danger

Hazard Statements:

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H350i	May cause cancer by inhalation.
H372	Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.

Precautionary statements

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	P272 Contaminated work clothing should not be allowed out of the workplace.
P280	P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302 + P350.	P302 + P350 If on skin: Wash with plenty of water.
P304 + P340	P304 + P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P308 + P311	P308 + P311 If exposed or concerned: Call a poison center/doctor.
P333 + P313.	P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	P342 + P311 If experiencing respiratory symptoms: Call a poison center/doctor.
P362 + P364	P362 + P364 Take off contaminated clothing and wash it before reuse.

Supplemental label information

Exposure to the elements listed in Section 3 by inhalation, ingestion, and skin contact can occur when melting, casting, gross handling, pickling, chemical cleaning, heat treating, abrasive cutting, welding, grinding, sanding, polishing, milling, crushing, or otherwise heating or abrading the surface of this material in a manner which generates particulate.

2.3 Other hazards

None known.

3 Composition/information on ingredients

Description:

Metal in compact form

Material code (DIN)

CuBe2 - Alloy 25 (C17200), Alloy 190 (C17200), Alloy 60(C17460), Alloy 3 (C17510), Alloy 174 (C17410)

Material number (DIN)

UNS-number:

C17200 / C17460 / C17510 / C17410

Information:

The classifications listed below reflect the classification of the relevant alloying constituents and are only for information. Mentioned percentages are references values.

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3.1 General information

Chemical Element	% Weight	CAS-N°	EINECS-N°	Classification according to Regulation EC N° 1278/2008
Copper	96.30- 99.50	7440-50-8	231-159-6	⚠ Aquatic Chronic 2, H411
Beryllium	0.15 - 2.00	7440-41-7	231-150-7	⚠ Skin Sens. 1; H317; STOT SE 3; H335; ⚠ Carc. 1B; H350i; STOT RE 1; H372.
Nickel	0.0 - 2.20	7440-02-0	231-100-4	⚠ Skin Sens. 1; H317, STOT SE 3; H335, ⚠ Carc. 2; H351, STOT RE 2; H373
Cobalt	0.0 - 2.70	7440-48-4	231-158-0	⚠ Skin Sen.1, H317; Acute Tox.4, H302; Resp. Sens. 1, H334; Aqua. Chron. 4, H413.
Other Components	0.0 - 3.20	Below Reported levels		

4 First-aid measures

4.1 General information

There is no immediate medical risk associated with these alloys in massive form. If exposed or concerned: get medical attention/advice. Wash contaminated clothing before reuse. First aid measures provided are related to particulate containing beryllium.

4.2 Inhalation

Breathing difficulties caused by inhalation of particulate requires immediate removal to fresh air. If breathing has stopped, perform artificial respiration and obtain medical help.

4.3 Skin contact

Cuts should be treated by normal first aid. Embedded foreign bodies must be removed.

4.4 Eye contact

There is no special hazard to the eyes. Avoid transferring particulate material to the eyes from the hands. Any particulate which does enter the eyes could cause damage to the eye and surrounding tissues and should be removed by copious flushing with clean water, obtain medical help.

4.5 Ingestion

The alloys are not toxic, but ingestion should be avoided including ingestion via hand-to-mouth activity such as eating, drinking, smoking. In case of accidental swallowing of dust or powder vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, obtain medical help.

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

May cause allergic skin reaction. May cause allergic respiratory reaction. Prolonged exposure may cause chronic effects.

4.6 Indication of any immediate medical attention and special treatment needed

Treatment of Chronic Beryllium Disease: There is no known treatment which will cure chronic beryllium disease. Prednisone or other corticosteroids are the most specific treatment currently available. They are directed at suppressing the immunological reaction and can be effective in diminishing signs and symptoms of chronic beryllium disease. In cases where steroid therapy has had only partial or minimal effectiveness, other immunosuppressive agents, such as cyclophosphamide, cyclosporine, or methotrexate, have been used. In view of the potential side effects of all the immunosuppressive medications, including steroids such as prednisone, they should be used only under the direct care of a physician. Other treatments, such as oxygen, inhaled steroids or bronchodilators, may be prescribed by some physicians and can be effective in selected cases. In general, treatment is reserved for cases with significant symptoms and/or significant loss of lung function. The decision about when and with what medication to treat is a judgment situation for individual physicians.

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In their 2014 official statement on the Diagnosis and Management of Beryllium Sensitivity and Chronic Beryllium Disease, the American Thoracic Society states that "it seems prudent for workers with BeS to avoid all future occupational exposure to beryllium."

5 Firefighting measures

5.1 General information

The alloys are non-flammable.

5.2 Extinguishing media

Suitable: Do not use water in fire-fighting metal melting operations.

Unsuitable: To avoid risk of explosion, dry sand or other fire-fighting powders should be used.

5.3 Advice for firefighters

Firefighters shall use full protective equipment. No especial measures are required.

5.4 Specific methods:

Pressure-demand self-contained breathing apparatus must be worn by firefighters or any other persons potentially exposed to the particulate released during or after a fire.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

In solid form this material poses no special clean-up problems. Wear appropriate protective equipment and clothing during clean-up.

6.2 Environmental precautions

Avoid release to the environment. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Clean up and dispose the material according to local regulations.

6.4 Reference to other sections

For personal protection, see Section 8 of this document. For waste disposal, see Section 13 of this document.

7 Handling and storage

7.1 Handling

No special precautions are required for handling alloys in massive forms. Use local exhaust ventilation when particulate (dust, mist, fume) is present - ref. to 8.2. Use gloves when handling sharp edged alloy products, to prevent metal cuts and when particulate is present, to prevent sensitization. If necessary, use disposable gloves (nitrile or vinyl) under work gloves to prevent mechanical risks - ref. to 8.2.

7.2 Storage

No special precautions required. No prohibitions for mixed-goods-storage.
Storage in dry conditions.

7.3 Specific end uses

No further relevant information available.

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8 Exposure controls and personal protection

8.1 Control parameters

The relevant national limit specifications should be observed. **Limits of airborne substances in the place of work: Short-term Exposure Limit and Time weighted Average in accordance with SUVA (Switzerland).**

Substance	CAS-Nº.	Type	Value	Form
Copper	7440-50-8	VLE	0.20 mg/m ³	Inhalable fraction
		VME	0.10 mg/m ³	Inhalable fraction
Beryllium	7440-41-7	VME	0.006 mg/m ³	Inhalable fraction
Cobalt	7440-48-4	VME	0.05 mg/m ³	Inhalable fraction
Nickel	7440-02-0	VME	0.50 mg/m ³	Inhalable fraction

Biological Limit Values in Workplace (BAT-Wert) in accordance with SUVA.

Substance	CAS-Nº.	Type	Value	Analysis
Cobalt	7440-48-4	BAT-Wert	30 µg/l	Urine
Nickel	7440-02-0	BAT-Wert	45 µg/l	Urine

8.2 Recommended monitoring procedures

VENTILATION: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Ensure adequate ventilation, especially in confined areas. Whenever possible, the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne particulate. Where utilized, exhaust inlets to the ventilation system must be positioned as close as possible to the source of airborne generation. Avoid disruption of the airflow in the area of a local exhaust inlet by equipment such as a man-cooling fan. Check ventilation equipment regularly to ensure it is functioning properly. Provide training on the use and operation of ventilation to all users. Use qualified professionals to design and install ventilation systems.

WET METHODS: Machining operations are usually performed under a liquid lubricant/coolant flood which assists in reducing airborne particulate. However, cycling through machine coolants containing finely divided particulates in suspension can result in the concentration building to a point where the particulate may become airborne during use. Certain processes such as sanding and grinding may require complete hooded containment and local exhaust ventilation. Prevent coolants from splashing onto floor areas, external structures or operators' clothing. Utilize a coolant filtering system to remove particulate from the coolant.

WORK PRACTICES: Develop work practices and procedures that prevent particulates from coming into contact with worker skin, hair, or personal clothing. If work practices and/or procedures are ineffective in controlling airborne exposure or visual particulate from deposition on skin, hair, or clothing, provide appropriate cleaning/washing facilities. Procedures should be written that clearly communicate the facility's requirements for protective clothing and personal hygiene. These clothing and personal hygiene requirements help keep particulate from being spread to non-production areas or from being taken home by the worker. Never use compressed air to clean work clothing or other surfaces.

Fabrication processes may leave a residue of particulate on the surface of parts, products or equipment that could result in employee exposure during subsequent material handling activities. As necessary, clean loose particulate from parts between processing steps. As a standard hygiene practice, wash hands before eating or smoking.

HOUSEKEEPING: Use vacuum and wet cleaning methods for particulate removal from surfaces. Be certain to de-energize electrical systems, as necessary, before beginning wet cleaning. Use vacuum cleaners with high efficiency particulate air (HEPA). Do not use compressed air, brooms, or conventional vacuum cleaners to remove particulates from surfaces as this activity can result in elevated exposures to airborne particulate. Follow the manufacturer's instructions when performing maintenance on HEPA filtered vacuums used to clean hazardous materials.

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If observance of the limits cannot be guaranteed by means of exhausters, personnel should be provided with face or breathing masks with breathing filter class P3.

Particle filter P2	Particle filter P3	in combination with: - ref. BIA ^[1]
10 times exposure limit	30 times exposure limit	Half-/ quarter mask or particle filtered half mask / FFP2 / FFP3)
15 times exposure limit	400 times exposure limit	Full mask / mouthpiece garniture

^[1] Recommended by BIA (German Professional Associations' Institute for Occupational Safety).

8.3 Exposure controls

- **Eye protection:**
For processing the alloys, the use of safety glasses is recommended as required by the various operations, so for example safety glasses with side protection, closed safety glasses/goggles or face shields.
- **Hand protection:**
Follow the standard workplace hygiene recommendations. Gloves against particulate/cuts. If necessary, use disposable gloves, protection against particulate, under work gloves, protection against cuts, for example leather gloves, against mechanical risks.
- **Body protection:**
Wear suitable protective clothing, depending upon how the products are further processed.
- **Other**
Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Protective overgarments or work clothing must be worn by people who may become contaminated with particulate during activities. Skin contact with this material may cause, in some sensitive individuals, an allergic dermal response. Particulates that become lodged under the skin have the potential to induce sensitization and skin lesions.
- **Respiratory protection**

When airborne exposures exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must be medically evaluated to determine if they are physically capable of wearing a respirator. Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight-fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a baghouse air cleaning device.
- **Environmental exposure controls**

Environmental manager must be informed of all major releases.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State:	Solid matter.
Form:	Various shapes.
Colour:	Bronze (gold) / Copper.
Odour:	Odorless.
Odour threshold:	Not applicable.
Melting point / melting range:	870 - 1070 °C
Boiling point / boiling range:	Not applicable.
Flash point:	Not applicable.
Explosive properties:	Not explosive.
Density at 20°C:	8.80 g/cm ³
Solubility in / miscibility with water:	Insoluble.
Vapour pressure:	Not applicable.
Vapour density:	Not applicable.
Viscosity	Not applicable.

9.2 Other information:

Not applicable

10 Stability and reactivity

10.1 Reactivity

Not applicable

10.2 Chemical stability

The material under normal conditions is stable.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Avoid dust/ small particles formation. Contact with acids. Contact with alkalis.

10.5 Incompatible materials

Strong acids, alkalis and oxidizing agents.

10.6 Hazardous decomposition products

No dangerous decomposition are known.

11 Toxicological information

11.1 Information on likely routes of exposure

Occupational exposure to the substance or mixture may cause adverse effects.

Inhalation:	May cause damage to organs (respiratory system) through prolonged or repeated exposure.
Skin Contact:	May cause an allergic skin reaction.
Eye contact:	No effects due to the product form.
Ingestion:	No effects due to the product form.

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Symptoms Respiratory disorder.

11.2 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	No effects due to the product form.
Serious damage/eye irritation:	No effects due to the product form.
Ingestion:	No effects due to the product form.
Respiratory sensitisation:	May cause sensitisation by inhalation.
Skin sensitisation:	May cause allergic skin reaction.
Germ cell mutagenicity:	Not applicable.
Reproductive toxicity:	Not applicable.
Carcinogenicity	Cancer hazard. IARC Monographs. Overall Evaluation of Carcinogenicity Beryllium (CAS 7440-41-7) 1 Carcinogenic to humans. Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans.
Specific target organ toxicity- repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.
Aspiration hazard	Due to lack of data the classification is not possible.
Other information	Symptoms may be delayed.

12 Ecological information

12.1 Aquatic toxicity

Substance	CAS-N°	Aquatic		Species	Test Results
Beryllium	-	Acute			
		Fish	LC50	Fish	0,0326 mg/l, 96 hours estimated
Copper	7440-50-8	Acute		-	
		Crustacea	EC50	Blue crab (Callinectes Spidus)	0,0031 mg/l
		Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0,0219 - 0,0446 mg/l, 96 hours
Nickel	7440-02-0	Acute			
		Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.060 mg/l, 4 days

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

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12.6 Other adverse effects

No further relevant information available.

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13 Disposal considerations

13.1 Waste treatment methods

Residual waste:	For scrap consult Lamineries MATTHEY.
Contaminated packaging:	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Metal scrap is a valuable raw material and easy to recycle for reuse. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Disposal methods/information:	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste codes should be assigned by the user based on the application for which the product was used.
EU waste code	

14 Transport information

14.1 UN-Number

ADR, AND, IMDG, IATA Not regulated as dangerous goods.

14.2 UN proper shipping name

ADR, AND, IMDG, IATA Not regulated as dangerous goods.

14.3 Transport hazard class(es)

ADR, AND, IMDG, IATA Class Not regulated as dangerous goods.

14.4 Packing group

ADR, IMDG, IATA Not regulated as dangerous goods.

14.5 Environmental hazards

ADR, IMDG, IATA Not regulated as dangerous goods.

14.6 Special precautions for user

ADR, ADN, IMDG, IATA, RID Not regulated as dangerous goods.

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

Not regulated as dangerous goods.

15 Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Copper (CAS 7740-50-8)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Copper (CAS 7740-50-8)

Nickel (CAS 7440-02-0)

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered.

Beryllium (CAS 7440-41-7)

Cobalt (CAS 7440-48-4)

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other EU regulations

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Cobalt (CAS 7440-48-4)

Beryllium (CAS 7440-41-7)

Other regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Pregnant women should not work with the product, if there is the least risk of exposure. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

16 Other information

Disclaimer:

The information on this Material Data Sheet (MSDS) is believed to be correct by the time of the date issued. All data used was from sources considered to be technically reliable and the information is believed to be correct. The user is responsible for evaluating all available information when using this product for any particular use and complying with all Federal, State, Provincial and Local laws, statutes and regulations.

To avoid any misunderstandings or incorrect assumptions by the receiver of the safety information, it should be made clear that the supplied information is actually a voluntary Product information Sheet closely following the guidelines of the Guidance on the compilation of Safety data Sheets - Regulation (EU) 2020/878. of December 2020 (REACH/SDS).

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