

Information sheet for articles

Based on EC regulation No. 1907/2006 (REACH)

Trade name :	Special brass alloys with lead		
Revised on:	20.07.2018	Date of entry into force:	20.07.2018
Version:	2	Replaces version:	1

01. Identification of the article and the company

Name of product

Rods, wires, tubes, forgings out of the Diehl-alloys: 320, 332, 335, 356, 357, 358, 362, 363, 364, 393, 412, 413, 415, 451, 452, 453, 455, 457, 458, 460, 466, 476, 469, 470, 471, 479, 482, 489, 490

Application of the article

Semi-finished product

Manufacturer/Supplier:

Diehl Metall Stiftung & Co. KG
Unternehmenseinheit Messing
Heinrich-Diehl-Str. 9

Street / PO Box:

D-90552 Röthenbach a. d. Pegnitz

Nat.code./postal code/city:

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Remarks: provide information to products (acc. REACH)

With the entry into force of the REACH Regulation (EC) No 1907/2006 on 01/06/2007, Directive 91/155/EEC (information in safety data sheets) has been repealed. The REACH Regulation defines the requirements for making a safety data sheet, and specifies the conditions under which a legal requirement exist to draw up safety data sheets.

For products, there is no legal obligation to create a MSDS. Our manufactured semi-products are within the meaning of the REACH regulation as defined products (except billets and ingots).

The customer must be informed, if very high concern substances (substances of very high concern = SVHC) are used in products. If substances (part > 0.1%), which one are a part of our products, will be newly listed in the list of candidates, we are fulfilling our duty to inform our customers without being asked. The present document is an information sheet, which does not satisfy with the formal requirements of REACH.

02. Hazards identification

Classification

Not applicable

Information pertaining to special dangers for human and environment.

Not applicable

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Chemical characterization

Metal in compact form

Additional hints:

The following classification of pure substances purposes only for information. The classification of a pure substance is not applicable to its use as element of a copper alloy. The pure substance will not released, under the normal or reasonably foreseeable conditions, of the using of products.

03. Classified alloy components

Chem.-name: **Copper**

EC-No. : 231-159-6 CAS-No. : 7440-50-8

Percentage : 40 - 75 %

Classification in acc. with Regulation (EC) No 1272/2008

Chem.-name: **Lead**

EG-Nr. : 231-100-4 CAS-Nr. : 7439-92-1

Percentage : 0,1 – 3,0 %

Classification in acc. with Regulation (EC) No 1272/2008: Repr. 1A Lact.: H360FD, H362

Chem.-name: **Iron**

EG-Nr. : 231-096-4 CAS-Nr. : 7439-89-6

Percentage : 0,1 – 3,0 %

Classification in acc. with Regulation (EC) No 1272/2008:

Chem.-name: **Nickel**

EG-Nr. : 231-111-4 CAS-Nr. : 7440-02-0

Percentage : 0,1 - 15 %

Classification in acc. with Regulation (EC) No 1272/2008 Karz. 2: H351 / STOT wdh. 1: H372** / Sens. Haut 1: H317

Chem.-name: **Tin**

EG-Nr. : 231-141-8 CAS-Nr. : 7440-31-8

Percentage : 0,1 – 0,5 %

Classification in acc. with Regulation (EC) No 1272/2008:

Chem.-name: **Aluminium**

EG-Nr. : 231-072-3 CAS-Nr. : 7429-90-5

Percentage : 0,1 – 6,0 %

Classification in acc. with Regulation (EC) No 1272/2008:

Chem.-name: **Manganese**

EG-Nr. : 231-110-51 CAS-Nr. : 7439-96-5

Percentage : 0,1 – 8,0 %

Classification in acc. with Regulation (EC) No 1272/2008:

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Chem.-name: **Silicon**

EC-No. : 231-130-8 CAS-No. : 7440-21-3

Percentage : 0,1 – 4,0 %

Classification in acc. with Regulation (EC) No 1272/2008:

Chem.-name: **Zinc**

EC-No. : 231-175-3 CAS-No. : 7440-66-6

Percentage : Rest

Classification in acc. with Regulation (EC) No 1272/2008:

04. First aid measures

General informations

The following indications relate to dust and fume, which could be caused through the further treatment.

In case of inhalation:

Immediately remove victim to fresh air. If condition persists, consult physician.

In case of skin contact:

If irritation develops, remove clothing and wash with soap and water. If condition persists, consult physician.

In case of eye contact:

Rinse opened eye for several minutes under running water.

In case of ingestion

Rinse mouth and drink plenty of water. Seek medical attention if symptoms persist.

Information to physician

Unknown.

05. Fire-fighting measures

Suitable extinguishing media:

No restrictions; extinguishing agents in acc. of environment.

extinguishing media which must not be used for safety reasons:

Unknown.

Special exposure hazards arising from the substance or preparation itself, combustion products resulting gases:

Unknown.

Special protective equipment for fire-fighters:

No special measures required.

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Additional information

Unknown.

06. Accidentale release measures

Personal precautions:

Avoid dust formation.

Environment precautions:

No special measures required.

Additional information

Unknown.

07. Handling and storage

Advices on safe handling:

If during the machining dust / smoke arise, exhauster and / or personal protective equipment must be provided.

Precautions against fire and explosion:

No special measures required.

Further informations

No special measures required.

Technical measures and storage conditions:

No special requirements.

Requirements for storage rooms and vessels

No special requirements.

08. Exposure controls / personal protection

Components with occupational exposure limit resp. Biological occupational exposure limits requiring monitoring:

Occupational exposure limits (AGW) Germany

Additional information about design of technical facilities:

No further details

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Ingredients with limit values that require monitoring at the workspace:

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

Additional occupational exposure limit values for possible hazards during processing:

General dust limit (A – alveolar fraction, E – respirable fraction)
AGW (Germany) (A) 1,25 mg/m³ (E)10mg/m³

Hint:

The lists valid during the making were used as basis.

Personal protection equipment:

Elements of personal hygiene.

Wash hands before breaks and at the end of work

Respiratory protection

Do not inhale dust/smoke/mist

Use a suitable industrial gas mask when work-place-limit are exceeded.

Hand protection

Protective gloves are recommended, depending upon how the products are further processed.

Eye protection

During the machining an appropriate eye protection (goggles) must be provided, depending from the kind of process.

Body protection

Depending on the work-place (processing of semi-finished products) is an appropriate personal protective equipment to be used.

09. Physical and chemical properties

Appearance

Physical state: Solid
Colour : Brass-yellow
Odour : Odourless

Safety relevant basic data

Danger of explosion: Product does not present an explosion hazard
Density at 20°C (g/cm³) : 8,3 – 8,8 (Lit.)
Water solubility: Insoluble
Flash point: Not applicable
Melting point/range (°C) : 850 -1050° (Lit.)
Boiling point/range (°C) : Undetermined

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10. Stability and reactivity

Conditions to avoid

Temperatures near the melting point.

Materials to avoid

Acids, bases, moist ammonia and ammonia compounds, contact with acids can emit flammable gases.

Hazardous decomposition products

Unknown.

11. Toxicological information

General remarks:

With proper handling and intended use of our products, no any adverse health effects to be expected (in our experience).

Experiences from practice

No irritating effect for skin, eye. No sensitizing effects known.

12. Ecological information

Ecotoxicity

Remark:

The products of copper alloys are practically insoluble in water. No hazard for water is known.

Other adverse effects

At proper usage of the products are no harmful effects known (according to current knowledge).

13. Disposal considerations

Recommendation

The products are recyclable. Please contact the manufacturer for information.

European waste catalogue

12 01 03: non-ferrous metal filings and turnings

16 01 18: non-ferrous metal

14. Transport information

Land transport ADR/RID/GGGVSE (cross-border):

Not regulated

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Maritime transport IMDG/GGVSee:

Not regulated

Marine pollutant:

No

Air transport ICAO-TI and IATA-DGR:

Not regulated

15. Regulatory information

Chemical safety assessment:

Our semi-finished products of copper alloys are not substances or mixtures as defined in Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (GHS / CLP Regulation) and therefore no object for classification and labelling.

National regulations:

Water hazard class

Not hazardous for water

16. Further information

Other remark:

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.

Reason for revision

Classification of lead according to ATP 9

Department issuing information sheet

Department Quality Assurance

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