

Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

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

### 1.1. Product identifier

Trade name: InnoMetal Nickel Silver

Other names: -

MSDS name: EN\_InnoMetal\_MSDS\_Nickel Silver

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

1.2.1. Application of the substance / the mixture

Additional component

1.2.2. Applications advised against

No further relevant information available.

## 1.3. Details of the supplier of the safety data sheet InnoMetal GmbH

Einsteinstr. 12 D-33104 Paderborn Fon: +49 (0)221 9582011 info@Innometal.de

### 1.4. Emergency telephone number

Monday - Friday, 9:00 am - 4:00 pm +49 (0)221 958 2011

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317

## Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 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:





G

GHS07

Signal word: Warning Hazard statements:

H351: Suspected of causing cancer.

H372: Causes damage to organs through prolonged or repeated exposure.

H317: May cause an allergic skin reaction.

Precautionary statements:

P281: Use personal protective equipment as required.

P273: Avoid release to the environment.

P308+313: If exposed or concerned: Get medical advice/attention.

P302+352: If on skin: Wash with plenty of soap and water.



Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

## 2.3. Other hazards

Risk of dust explosion. Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Description: Alloy of substances listed below with non-hazardous additions.

Labelling (CLP):

CAS-Nr.	EINECS	Chemical name	from %	till %	Hazard pictograms	Signal word	Hazard statements
7440-50- 8	231-159- 6	Copper	5	49	GHS09	Warning	H400, H412
7440-02- 0	231-111- 4	Nickel	10	25	GHS07, GHS08	Danger	H351, 372, 317, 412
7440-66- 6	231-175- 3	Zinc (stab.)	10	25	GHS09	Warning	H400, H410

Additional information: For the wording of the listed risk phrases refer to section 16.

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General information: No special measures required.

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 doctor.

After swallowing: If symptoms persist consult doctor.

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

Allergic reactions Asthma attacks

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

No further relevant information available.

### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing agents: Special powder for metal fires. Dry sand

For safety reasons unsuitable extinguishing agents: Water

## 5.2. Special hazards arising from the substance or mixture

Dust can combine with air to form an explosive mixture.

## 5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

Avoid formation of dust.

Do not inhale dust / smoke / mist.

Keep unprotected persons away.

### 6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

## 6.3. Methods and material for containment and cleaning up



Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal. Dispose contaminated material as waste according to item 13.

#### 6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling: Waste air is to be released into the atmosphere only via suitable separators. Prevent formation of dust. Provide suction extractors if dust is formed. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Information about fire and explosion protection: No special measures required.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials.

Further information about storage conditions: None.

#### 7.3. Specific end use(s)

No further relevant information available.



Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:					
7440-50-8 Copper					
WEL	Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists (as Cu)				
7440-02-0 nickel					
WEL	Long-term value: 0.5 mg/m³ as Ni				

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

#### 8.2. Exposure controls

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter P2/Filter P3 Protection of hands: Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing.

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Vacuum clean contaminated clothing. Do not inhale dust / smoke / mist. Do not blow or brush off contamination.

Avoid contact with the skin.

Wash hands before breaks and at the end of work.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

General Information

Appearance: Form: Powder

Colour: grey coloured Odour: Odourless PH-value: Not applicable Change in condition

Melting point/Melting range: > 1000 °C Boiling point/Boiling range: > 2000 °C

Flash point: Not applicable.

Flammability (solid, gaseous): Not determined

Ignition temperature: Not determined Decomposition temperature: Not applicable Self-igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Dust can combine with air to form an explosive mixture.

**Explosion limits:** 

Lower: Not determined Upper: Not determined

Vapour pressure: Not applicable Density at 20 °C: 6.0 - 10.0 g/cm<sup>3</sup> Evaporation rate: Not applicable

Solubility in / Miscibility with water: Insoluble.

Partition coefficient (n-Octanol/water): Not applicable

Viscosity: Not applicable.

#### 9.2. Other information

No further relevant information available.



Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No further relevant information available.

#### 10.2. Chemical stability

No decomposition if used and stored according to specifications.

### 10.3. Possibility of hazardous reactions

Reacts with acids, alkalis and oxidizing agents. Risk of dust explosion.

#### 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

No further relevant information available.

#### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect. on the eye: No irritating effect.

Sensitization: May cause sensitisation by skin contact.

Additional toxicological information:

Inhalation of dust or fumes leads to irritation of respiratory system. Inhalation of higher

concentrations may cause metal fume fever.

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

No further relevant information available.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Aquatic toxicity: No further relevant information available. Terrestrial toxicity: No further relevant information available.

## 12.2. Persistence and degradability

No further relevant information available.

## 12.3. Bio-accumulative potential

No further relevant information available.

#### 12.4. Mobility in soil

Remark: Harmful to fish.

Do not allow product to reach ground water, water course or sewage system.

## 12.5. Results of PBT and vPvB assessment

Not applicable.

## 12.6. Other adverse effects

No further relevant information available.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Recommendation:

Contact manufacturer for recycling information. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:



Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste Codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

## **SECTION 14: Transport information**

#### 14.1. UN number

ADR, IMDG, IATA: -

### 14.2. UN proper shipping name

ADR: -

IMDG, IATA: -

## 14.3. Transport hazard class(es)

ADR: -

Class: -

Label: -

IMDG, IATA:

Class: -

## 14.4. Packing group

ADR, IMDG, IATA: -

#### 14.5. Environmental hazards

Marine pollutant: no

#### 14.6. Special precautions for user

Warning: -

Danger code (Kemler): -

EMS number:-



Name of the substance/the mixture: InnoMetal Nickel-Silver

Date of last change: 06.02.2018

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

### **SECTION 15: Regulatory information**

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

National regulations:

Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

### 16.1. Wording of R und H phrases

Relevant phrases

(serves as the explanation for only the hazard and risk phrases noted in the MSDS, e.g. in chapter 3)

H317 May cause an allergic skin reaction.

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.

#### 16.2. Further information

The information provided in this material safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.