

## SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

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

#### 1.1. Product identifier

Trade name: InnoMetal Zinc  
Other names: -  
MSDS name: EN\_InnoMetal\_MSDS\_Zinc

#### 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  
Aquatic Acute 1 H400 Very toxic to aquatic life.  
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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:



GHS09

Signal word: Warning

Hazard statements:

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

Inhalation of dust or fumes leads to irritation of respiratory system. Inhalation of higher concentrations may cause metal fume fever.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2. Substance

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

Components:

CAS	EINECS	Chemical name	from %	till %	Hazard pictograms	R phrases	Index Number
7440-66-6	231-175-3	Zinc (stab.)		100	N	R50/53	030-002-00-7

Labelling (CLP):

CAS	EINECS	Chemical name	Hazard pictograms	Signal word	Hazard statements
7440-66-6	231-175-3	Zinc (stab.)	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: Take affected persons out into the fresh air.

Take affected persons out of danger area and lay down.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

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

No further relevant information available.

### 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:

Carbon dioxide

Water

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

No further relevant information available.

### 5.3. Advice for firefighters

Protective equipment: No special measures required.

## SECTION 6: Accidental release measures

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

Avoid formation of dust.  
Keep away from ignition sources.

**6.2. Environmental precautions**

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

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

Pick up mechanically.

**6.4. Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Precautions for safe handling: Any unavoidable deposit of dust must be regularly removed.

Information about fire and explosion protection: Dust can combine with air to form an explosive mixture.

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

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from flammable substances.

Do not store together with oxidizing and acidic materials.

Further information about storage conditions: Protect from humidity and water..

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

No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

Ingredients with limit values that require monitoring at the workplace: Not required.

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

### **8.2. Exposure controls**

Respiratory protection: Suitable respiratory protective device recommended.

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: Do not eat, drink, smoke or sniff while working. 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: 402 °C

Boiling point/Boiling range: 906 °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: 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: 7.1 g/cm<sup>3</sup>

Bulk density: 1.8 – 3.2 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.

## **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**

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: No sensitizing effects known.

## **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**

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

### **12.4. Mobility in soil**

No further relevant information available.

### **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:

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: 3077

### **14.2. UN proper shipping name**

ADR: 3077 UMWELTGEFÄHRDENDER STOFF, FEST, N.A.G. (zinc)

3077 ENVIRONMENTALLY HAZARDOUS

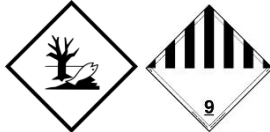
SUBSTANCE, SOLID, N.O.S. (zinc)

IMDG, IATA: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (zinc)

### **14.3. Transport hazard class(es)**

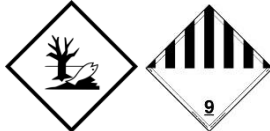
ADR:



Class: 9 Miscellaneous dangerous substances and articles.

Label: 9

IMDG, IATA:



Class: 9 Miscellaneous dangerous substances and articles.

### **14.4. Packing group**

ADR, IMDG, IATA: III

### **14.5. Environmental hazards**

Marine pollutant: yes Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

Special marking (IATA): Symbol (fish and tree)

### **14.6. Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90

EMS number: F-A,S-F

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

Not applicable.

Transport/Additional information:

ADR

Excepted quantities (EQ): E1

Limited quantities (LQ) LQ27

Transport category 3  
Tunnel restriction code E  
UN "Model Regulation": UN3077, ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S., 9, III

## **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 2 (Self-assessment): 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 and H phrases**

Relevant phrases

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **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.