

# SAFETY DATA SHEET

## Zinc Plus

Hazards identified or described in this document only apply in case of exposure to dust, fumes or particles of the composing chemical or chemicals of this product generated through specific treatments or manipulations such as polishing, welding, heat treatment etc.

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

**Product name** : Zinc Plus

**Use of the substance/preparation** : Industrial applications: Sheets for building applications.

#### Company/undertaking identification

**Supplier** : Umicore Service Marketing Building Products

Woluwelaan 34  
1831 Bruxelles  
BE Belgium  
Phone : +32 27125211

**Emergency telephone number** : Emergency telephone number IPDS Umicore : +32 2 2277026

### 2. Composition/information on ingredients

**Substance/preparation** : Preparation

Ingredient name	CAS number	%	EC number	Classification
Zinc	7440-66-6	>99	231-175-3	Not classified.
Coating polyurethane - polyamide		<1		Not classified.
Copper	7440-50-8	<0.17	231-159-6	Not classified.
<b>See section 16 for the full text of the R Phrases declared above</b>				

\* Occupational Exposure Limit(s), if available, are listed in section 8

### 3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified.

**See section 11 for more detailed information on health effects and symptoms.**

**Remarks** : Hazards identified or described in this document only apply in case of exposure to dust, fumes or particles of the composing chemical or chemicals of this product generated through specific treatments or manipulations such as polishing, welding, heat treatment etc.

### 4. First aid measures

#### Symptoms

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : No known significant effects or critical hazards.

**First aid measures****If risk of exposure to dust or fumes exists:**

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
- Skin contact** : Not applicable.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

See section 11 for more detailed information on health effects and symptoms.

**5. Fire-fighting measures**

**Extinguishing media** : Use an extinguishing agent suitable for surrounding fires.

**Special exposure hazards** : No specific hazard.

See section 11 for more detailed information on health effects and symptoms.

**Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

**6. Accidental release measures**

**Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Methods for cleaning up** : If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

**7. Handling and storage**

**Handling** : Avoid exposure. Use suitable protective equipment (Section 8). Avoid generation of dust.

**Storage** : This material is delivered without packaging as solid material. No packaging requirements applicable.

**Packaging materials**

**Recommended** : No packaging requirements applicable.

**8. Exposure controls/personal protection****Ingredient name****Occupational exposure limits**

Zinc

**ACGIH TLV (United States, 1/2005).**TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Particulates (Insoluble) Not Otherwise Specified (PNOS)

Copper

**Lijst Grenswaarden / Valeurs Limites (Belgium, 10/2002).**TWA: 1 mg/m<sup>3</sup> 8 hour(s). Form: Dusts and MistsTWA: 0,2 mg/m<sup>3</sup> 8 hour(s). Form: Fume**Exposure controls**

**Occupational exposure controls** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Skin protection / Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Body: Recommended: Gloves : Use cotton or leather gloves.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

#### Hygiene measures

**General information** :

## 9. Physical and chemical properties

### General information

#### Appearance

**Physical state** : Solid.

**Color** : Grey.

**Odor** : Odorless.

### Important health, safety and environmental information

**pH** : Not applicable.

**Boiling point** : 906°C (1662.8°F)

**Melting point** : 420°C (788°F)

**Flash point** : Not applicable.

**Flammability (solid, gas)** : Not applicable.

**Explosive properties** : Not considered as a product presenting risks of explosion.

**Oxidizing properties** : Not applicable.

**Relative density** : 7.14 (Water = 1)

**Solubility** : Insoluble in cold water.

## 10. Stability and reactivity

**Stability** : The product is stable.

## 11. Toxicological information

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : No known significant effects or critical hazards.

### Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Zinc	LD50	>2000 mg/kg	Oral	Rat
	LDLo	388 mg/kg	Oral	Duck

### Potential chronic health effects

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 12. Ecological information

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Zinc	Daphnia magna (EC50)	48 hour(s)	2.8 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.238 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.24 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.41 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	0.56 mg/l
	Daphnia magna (LC50)	96 hour(s)	0.57 mg/l
Copper	Daphnia magna (EC50)	48 hour(s)	0.0318 mg/l
	Daphnia magna (EC50)	48 hour(s)	0.036 mg/l
	Daphnia magna (EC50)	48 hour(s)	0.055 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.0094 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.0103 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.0278 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.0278 mg/l

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. This product is recyclable. Consideration of disposal via this route should be given.
- European waste catalogue (EWC)** : Not available.
- Hazardous waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

## 14. Transport information

### International transport regulations

Not regulated as dangerous for ADR/RID - ADNR - IMDG and IATA.

## 15. Regulatory information

### EU Regulations

- Risk Phrases** : This product is not classified according to the EU regulations.
- Product use** : Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.  
- Industrial applications.
- Additional Warning Phrases** : Safety Data Sheet available for professional user on request.
- Conforms to 91/155/EEC - 2001/58/EC - Belgium**

## 16. Other information

Full text of R phrases referred to in sections 2 and 3 - Belgium : Not applicable.

Full text of classifications referred to in sections 2 and 3 - Belgium : Not applicable.

### History

Date of issue : 2/06/2005.

Date of previous issue : 13/01/2005.

Version : 2

✔ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained in this Material Safety Data Sheet is accurate and reliable on presently available resources. However, neither the seller nor any of its subsidiaries assumes any responsibility or liability whatsoever for the accuracy or completeness of the information contained herein.

This Material Safety Data Sheet shall not constitute a guarantee for any specific product features. Final determination of suitability of this material is the sole responsibility of the user.

All materials may present unknown hazards and should be used and handled with caution and following reasonable safety procedures. Consequently the buyer assumes all risks in connection with the use and handling of this material.

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