

# SAFETY DATA SHEET

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Date of revision:

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Product name: **ROLLED COPPER-TITANIUM ZINC**

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROLLED COPPER-TITANIUM ZINC  
ident. Nr.: P30103  
Application: tinsmith items, roofing and building industry, fuses  
Supplier data:  
Name: **INTER.MET s.r.l.**  
Address and telephone number: **Via 4 Novembre, 18 -- 27036 Mortara, Pavia, Italy - tel. + 39 0384 98333**  
Emergency telephone number: **+39 335 1270677**

## 2. COMPOSITION / INFORMATION ON IGREDIENTS:

Common chemical name: Zinc, primary stuff: zinc by EN 1179

**Hazardous components:** none

Chemical name:	Index	CAS number.	EC number	Conc. (wt.%)	Hazard labelling	R - phrases	S - phrases
Zinc		7440-66-6					

## 3. HAZARDS IDENTIFICATION:

Hazard: This product is not a hazardous substance.  
Specific hazards: By contact with acids or alkaloids is coming to a chemical reaction, by which the hydrogen gas arises. By warming up over 650°C, ZnO gas come to exhale.  
Main symptoms: Exposure to ZnO can cause coughing, weakness and headache. This troubles will disappear in 1 – 2 days.

## 4. FIRST-AID MEASURES

General instructions: Measures are necessary only by inhalation of zinc oxides or dust or by scald with melted zinc. The injured person must be taken to fresh air, get medical attention.  
Skin contact: By burning skin washing out the wound with fresh water, get medical attention.  
Eye / mucous membrane contact: Flush eyes with large amounts of water. If irritation persist, get medical attention.  
Inquisition: By weakness inhale fresh air. Get medical attention.

## 5. FIRE-FIGHTING MEASURES:

Extinguishing media: By surrounding fire no limits. Fire as result of melted zinc must be extinguished with sand or special means of class D. Water and CO<sub>2</sub> are not permitted.  
Specific hazards:  
Protection equipment: Explosion, widening of fire by extinguishing with water.  
Protective mask, helmet, fire safe clothes and gloves.

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## 6. ACCIDENT OUTFLOW MEASURES

Personal precautions:	Zinc sheet is a solid substance, outflow is not possible.
Environmental precautions:	-
Methods for cleaning up:	-

## 7. HANDLING AND STORAGE

<b>Handling</b>	Special attention to sharp edges and slippery plates.
Technical measures:	Protection of packaging with binding bands and protecting paper.
Precautions:	Protective clothes and gloves.
Safe handling advise:	Use shears for bands cutting, unwinding device by unpacking.
<b>Storage</b>	In a dry and ventilated storage.
Safety storage conditions:	Original packaging, in a dry and ventilated storage.
Incompatible products to separate:	Acids and alkaloids.
Packaging demands:	Protective paper, transporting pallet.
Protection against static electricity:	Protective paper, transporting wood pallet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures:	Generally technical safety measures for sheet remaking, roofer's and tinsmith's trade.
Control parameters:	Weather conditions by sheet remaking, roofer's and tinsmith's works.
<b>Personal protection equipment</b>	Protective clothes, gloves, cap, shoes and glasses.
Skin and body protection:	Protective work clothing.
Respiratory organ protection :	Ventilated room.
Hand protection:	Protective gloves.
Eye protection:	Glasses.
Hygiene measures:	The usual precautionary measures for handling with sheets.

## 9. PHISICAL AND CHEMICAL PROPERTIES:

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Product name: **ROLLED COPPER-TITANIUM ZINC**

Form:	Metallic plates, silver colour, after exposing on atmosphere the surface will be patinated.
Odour:	without
pH - Value:	-
Melting point / range:	419°C
Boiling point / range:	906°C
Flash point:	-
Autoignition temperature:	Near the boiling point
Explosion properties:	Possible by contact of melted zinc and water.
Oxidising properties:	Possible in the presence of damp.
Vapour pressure:	1,33 kPa by 487°C
Density:	7200 kg/m <sup>3</sup>
Solubility :	Insoluble

## 10 STABILITY AND REACTIVITY:

Stability and reactivity:	Stable under recommended storage conditions, reactive in contact with acids and alkaloids.
Conditions to avoid:	Storage in a damped room.
Materials to avoid:	Sourness, alkaloids, damp, cooper and iron.
Hazardous decomposition products:	Zinc oxides by melting.

## 11. TOXICOLOGICAL INFORMATION:

Acute toxicity:	none
Chronic toxicity; long term toxicity:	none
Sensitisation:	none
Specific effects:	none

## 12. ECOLOGICAL INFORMATION:

Mobility:	Low : - 0,01 mm thickness / year
Degradability:	If they are not regularly mounted, zinc sheets can disintegrate to zinc hidroxyde.
Bioaccumulation:	Not expected to accumulate in biological organisms.
Ecotoxocity	none

## 13. DISPOSAL CONSIDERATIONS

Product:	Zinc can be remade in totality by the normal production process.
Contaminated packaging:	Packaging is not contaminated. The pallets and paper can be burned out, the binding bands remade in steelworks.

## 14. TRANSPORT INFORMATION:

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Product name: **ROLLED COPPER-TITANIUM ZINC**

UN number:	Not classified
Land (RID,ADR, CFR):	Not classified
Inland waterways (ADNR):	Not classified
Sea (IMDG):	Not classified
Air (ICAO-TI, IATA, DGR):	Not classified
Specific transport measures and conditions:	Not classified as hazardous cargo.

## 15. REGULATORY INFORMATION:

Classification:	Classification not required
<b>Labelling</b>	
Symbol:	None
R - phrases:	None
S - phrases:	None
Possible existence of local regulations:	

## 16. Other information:

Workers qualifying :	Suitable education for tinsmiths or roofer, examination for work protection.
Recommended use and possible restrictions:	Tinsmiths products
Instructions:	Technical instructions by producer.
Sources :	

The information presented here is based on our present knowledge and experience and on current EEC and national laws and is intended to describe our product with respect to possible safety demands.