

# Material Safety Data Sheet

**Quick Identifier:** Gold Powder 360-RS-4013

RUCO Druckfarben  
A.M. Ramp & Co. Gmbh  
D-65814 Eppstein/Ts.

**Hazard Ratings:** Health 1  
Flammability 0  
Reactivity 0

## Section I

**Distributors:** ITW Imtran. **Information:** Tel: +49-6198-3040 (RUCO)  
**Address:** 39 Shelley Road Tel: 978-372-3443 (Imtran)  
**City/State/Zip:** Haverhill, MA 01835 Fax: 978-372-9817

**Person Responsible for Preparation:** Dr. H. Nitschke **Date Prepared:** 9/2/97

## Section II Hazardous Ingredients

Hazardous Component(s) (Chemical & Common name(s))	OSHA PEL (ppm)	ACGIH TLV (ppm)	Other Exposure Limits (ppm)	Range (weight-%)	CAS-No.
Copper-Zinc alloy			6 mg dust/m <sup>3</sup>	100	---

\*\*\*The product does not contain any ingredients being classified toxic according to EU regulations\*\*\*

## Section III Physical & Chemical Characteristics

**Boiling Point** N/A **Specific Gravity (H<sub>2</sub>O = 1)** 8.3 **Vapor Pressure (mbar)** N/A

**Vapor Density** N/A **VOC (ingredients with vapor pressure > 0.1 mbar)** 0 g/l

**Solubility In Water** insoluble **Reactivity In Water** none

**Appearance & Odor** Dry powder **Melting Point** Unknown

## Section IV Fire & Explosion Data

**Flash Point** N/A **Method Used** Closed cup **Flammable Limits** In Air % by Volume **LEL (Lower)** N/A **UEL (Upper)** N/A

**Auto-Ignition Temperature** N/A **Extinguishing Media** Chemical powder, foam, carbon dioxide at low pressure. Most effective is dry sand

**Special Fire Fighting Procedures** Full protective equipment including self contained breathing apparatus should be used. Foam in large quantities. Cool endangered containers with water.

**Unusual Fire & Explosion Hazards** Do not inhale dust or decomposition products. Once the powder has started to burn, it is quite difficult to extinguish. Prevent from contact with oxygen(air) by covering with sand.

## Section V Physical Hazards (Reactivity Data)

# Material Safety Data Sheet

continued

<b>Stability</b>	Instable ( ) Stable (X)	Conditions To Avoid
<b>Incompatibility (Materials to Avoid)</b>	Strong oxidizers	
<b>Hazardous Decomposition Products</b>	unknown	
<b>Hazardous Polymerization</b>	May Occur ( ) Will Not Occur (X)	Conditions To Avoid

## Section VI Health Hazards

**1. Acute** Inhaling large quantities of metal powder will result in metal fume fever, which will last a few hours only  
**2. Chronic** Repeated skin contact may cause in dermatitis

**Signs & Symptoms of Exposure** In case of overexposure: Dizzy feeling, headache, reddening of the skin, irritation of the eyes.

<b>Medical Conditions Generally Aggravated By Exposure</b>	Skin Allergies			
<b>Chemical Listed as Carcinogen or Potential Carcinogen</b>	National Toxicology Program ( )Yes (X)No	OSHA ( )Yes (X)No		
	I.A.R.C. Monographs ( )Yes (X)No			

<b>Emergency &amp; First Aid Procedures</b>	<b>Routes of Entry:</b>
	<b>Inhalation</b> Fresh air supply.
	<b>Eyes</b> Rinse immediately with plenty of water. See a physician for medical treatment.
	<b>Skin</b> Wash immediately with soap and water.
	<b>Ingestion</b> Call medical assistance.

## Section VII Special Precautions & Spill/Leak Procedures

<b>Precautions To Be Taken In Handling &amp; Storage</b>	Use only with skin and eye protection. Keep away from ignition sources. Avoid contact with skin, eyes and mucous membranes. Do not eat, drink or smoke during handling. Do not empty into drains.
<b>Steps To Be Taken In Case Material Is Released Or Spilled</b>	Remove sources of ignition and ventilate polluted area. Take up remnants with liquid-binding material like sand, kieseguhr, etc. All spills should be cleaned up immediately.
<b>Waste Disposal Methods (Consult Federal, State &amp; Local Regulations)</b>	Follow federal, state and local regulations to dispose of or incinerate waste material.

## Section VIII Special Protection Information/Control Measures

<b>Respiratory Protection (Specific Type)</b>	Use sufficient ventilation to keep vapor concentration below TLV-value.			
<b>Ventilation</b>	Local Exhaust (yes)	Mechanical (general)	Special ---	Other ---
<b>Protective Gloves</b>	Chemical resistant gloves (rubber)			
<b>Eye Protection</b>	Chemical resistant and splash-proof safety goggles			
<b>Other Protective Clothing or Equipment</b>	none			
<b>Work/Hygienic Practices</b>	Do not eat, drink or smoke during handling. Remove contaminated clothing.			

The information contained herein is based on technical data believed to be reliable. However, since the conditions under which this information may be applied are beyond our control, we can assume no liability for results of its application.