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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

#### 1.1 **Product identifier:**

resi-TINT+ Metallic Powder (Rich Gold / Aluminium / Copper)

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

No additional information available

1.3 Details of the supplier of the safety data sheet

Eli-Chem Resins UK Ltd

212 Dunsfold Park

Canada Avenue

Cranleigh

GU68GA

United Kingdom

Phone: 01483 266636

+44 (0)1483 266636 (09:00 - 17:00 Mon-Thur / 09:00 - 16:00 Fri)

sales@elichem.co.uk

1.4 Emergency telephone number:

0044 (0) 01483 266636 (Office Hours Only)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

## 2.1.1 Classification according to Regulation (EU) 1272/2008:

CLP-Classification: The product is classified as hazardous in accordance with Regulation (EC) No.

1272/2008.

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

## 2.1.2 Classification according to EU Directives 67/548/EEC or 1999/45/EC:

Classification: This mixture is classified as hazardous according to 1999/45/EC.

N; R50/53

Full text of R-phrases: see section 16

#### 2.2 Label elements:

### 2.2.1 Labelling according to Regulation (EU) 1272/2008

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 to an approved waste disposal plant

# 2.2.2 Labelling according to Directives (67/548 - 1999/45)

Not relevant

#### 2.3 Other hazards:

Other hazards: PBT/vPvB data

Not applicable

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

Not applicable

### 3.2 Mixture:

Substance Name	Product Identifier	%	Classification according to directive 67/548/EEC
Copper	CAS No: 7440-50-8 EC No: 231-159-6	70 - 90	N;R50 R53
	REACH No: 01-2119480154-42-XXXX		1.55
Zinc Powder – zinc dust (Stabilized)	CAS No: 7440-66-6 EC No: 231-175-3 EC Index: 030-002-00-7 REACH No: 01-2119467174-37-XXXX	10 - 30	N;R50/53

Substance Name	Product Identifier	%	Classification according to regulation (EC) No. 1272/2008 (CLP)
Copper	CAS No: 7440-50-8 EC No: 231-159-6 REACH No: 01- 2119480154-42-XXXX	70 - 90	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412
Zinc Powder – zinc dust (Stabilized)	CAS No: 7440-66-6 EC No: 231-175-3 EC Index: 030-002-00-7 REACH No: 01- 2119467174-37-XXXX	10 - 30	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-phrases see section 16

### SECTION 4: FIRST AID MEASURES

## 4.1 Description of first aid measures:

Inhalation: Provide fresh air.

When in doubt or if symptoms are observed, get medical advice.

Skin contact: No hazards which require special first aid measures.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If symptoms persist, call a physician.

In case of ingestion: When in doubt or if symptoms are observed, get medical advice.

Additional advice: Treat symptomatically.

See also section 8

First aider: Pay attention to self-protection

When in doubt or if symptoms are observed, get medical advice.

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

Inhalation: Repeated or prolonged exposure: (dust): May cause respiratory impairment & lung damage.

Skin contact: No adverse effects are expected.

Eye contact: Dust contact with the eyes can lead to mechanical irritation.

Ingestion: May be irritating. Other adverse effects: none.

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

No data available

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### SECTION 5: FIREFIGHTING MEASURES

### **Extinguishing media:**

Suitable extinguishing media: Foam, ABC-powder, Carbon dioxide, Dry sand

Extinguishing media which must not be used for safety reasons: Water

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

Fire hazard: Non-flammable.

Specific hazards: Hazardous decomposition products metal oxides.

Do not allow run-off from firefighting to enter drains or water courses.

Dispose according to legislation.

#### 5.3 Advice for firefighters:

Advice for firefighters: Special protective equipment for firefighters.

In case of fire: Wear self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel: Evacuate area.

Prevent unauthorised persons entering the zone.

Provide adequate ventilation.

Use personal protective equipment as required.

Personal protection equipment: see section 8

Avoid generation of dust.

For emergency responders: Ensure procedures and training for emergency decontamination and

disposal are in place.

Personal protection equipment: see section 8.

#### 6.2 **Environmental precautions:**

Environmental precautions: Do not allow to enter into surface water or drains.

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

Methods for cleaning up:

Stop leak if safe to do so.

Prevent flow.

Take up mechanically.

Do not rinse down with water or water without cleaning agent

Dispose according to legislation.

#### 6.4 Reference to other sections:

Personal protection equipment: see section 8

Disposal: see section 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Handling: Provide adequate ventilation.

Use personal protective equipment as required.

Avoid contact with skin, eyes, and clothes.

Personal protection equipment: see section 8

Avoid generation of dust.

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Take any precaution to avoid mixing with incompatible materials.

See also section 10

Do not allow to enter into surface water or drains.

Advice on general occupational hygiene: Keep good industrial hygiene.

When using do not eat, drink, or smoke.

Wash hands before breaks and immediately after using the product.

Take off contaminated clothing.

# 7.2 Conditions for safe storage, including any incompatibilities:

Storage: Keep containers tightly closed in a dry, cool, and well-ventilated place.

Do not store near or with any of the incompatible materials listed in section 10.

Protect against water. / Humidity

Packaging materials: Keep/Store only in original container.

## 7.3 Specific end use(s)

No data available.

### **SECTION 8: EXPOSURE CONTROLS**

# 8.1 Control parameters: Exposure limit values:

Copper (744-50-8)		
Austria	MAK (mg/m³)	1 mg/m³ (inhalable fraction)
		0,1 mg/m³ (respirable fraction, smoke)
Austria	MAK Short time value (mg/m³)	4 mg/m³ (inhalable fraction)
		0,4 mg/m³ (respirable fraction, smoke)
Belgium	Limit value (mg/m³)	0,2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Bulgaria	OEL TWA (mg/m³)	0,1 mg/m³ (metal vapour)
Croatia	GVI (granicna vrijednost	0,2 mg/m³ (fume)
	izozenosti (mg/m³)	1 mg/m³ (dust)
Croatia	KGVI (kratkotrajna granicna	2 mg/m³) (dust and fumes)
	vrijednost izozenosti) (mg/m³)	
France	VLE (mg/m³)	2 mg/m³ (dust)
France	VME (mg/m³)	0,2 mg/m³ (fume)
		1 mg/m³ (dust)
Greece	OEL TWA (mg/m³)	0,2 mg/m³ (fume)
		1 mg/m³ (dust)
Greece	OEL STEL(mg/m³)	2 mg/m³ (dust)
Italy – Portugal – USA -	ACGIH TWA(mg/m³)	0,2 mg/m³ (fume)
ACGIH		

Copper (744-50-8)		
Latvia	OEL TWA (mg/m³)	0,5 mg/m³



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Spain	VLA-ED (mg/m³)	0,2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Switzerland	VLE (mg/m³)	0,2 mg/m³ (inhalable)
Switzerland	VME (mg/m³)	0,1 mg/m³ (inhalable)
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,1 mg/m³ (inhalable fraction)
United Kingdom	WEL TWA (mg/m³)	1 mg/m³ (dust and mists)
		0,2 mg/m³ (fume)
United Kingdom	WEL STEL (mg/m³)	0,6 mg/m³ (calculated fume)
		2 mg/m³ (dust and mist)
Czech Republic	Expozicni limity (PEL (mg/m³)	1 mg/m³ (dust)
		0,1 mg/m³ (fume)
Denmark	Graensevaerdie (langvarig)	1,0 mg/m³ (dust and powder)
	(mg/m³)	0,1 mg/m³ (fume)
Finland	HTP-arvo (8h) (mg/m³)	1 mg/m³
		0,1 mg/m³ (respirable dust and fume)
Hungary	AK-érték	1 mg/m³
		0,1 mg/m³ (fume)
Hungary	CK-érték	4 mg/m³
		0,4 mg/m³ (fume)

Copper (744-50-8)		
Ireland	OEL (8 hours ref) (mg/m³)	0,2 mg/m³ (fume)
		1 mg/m³ (dust and mist)
Ireland	OEL (15 min ref) (mg/m³)	0,6 mg/m³ (calculated fume)
		2 mg/m³ (dust and mist)
Lithuania	IPRV (mg/m³)	1 mg/m³ (inhalable fraction)
		0,2 mg/m³ (respirable fraction)
Norway	Gjennomsnittsverdier (AN)	0,1 mg/m³ (fume)
	(mg/m³)	1 mg/m³ (dust)
Norway	Gjennomsnittsverdier	0,3 mg/m³ (fume)
	(Korttidsverdi) (mg/m³)	3 mg/m³ (dust)
Poland	NDS (mg/m³)	0,2 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m³)	0,50 mg/m³ (powder)
Romania	OEL STEL (mg/m³)	0,20 mg/m³ (fume)
		1,50 mg/m³ (dust)
Slovakia	NPHV (priemerná) (mg/m³)	1 mg/m³ (dust)
		0,1 mg/m³ (fume)
Slovakia	NPHV (Hranicná) (mg/m³)	2 mg/m³ (dust)
		0,2 mg/m³ (fume)
Sweden	Nivágränsvärde (NVG) (mg/m³)	1 mg/m³ (total dust)



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	0,2 mg/m³ (respirable dust)

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Switzerland	VLE (mg/m³)	0,4 mg/m³ (respirable)
Switzerland	VME (mg/m³)	0,1 mg/m³ (respirable)
		2 mg/m³ (inhalable)

### Recommended monitoring procedures:

Concentration measurement in air

Personal air monitoring

### 8.2 Exposure controls:

Personal protection equipment: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

## workplace:

Dust

Respiratory protection: Use appropriate respiratory protection.

Effective dust mask. (EN 149)

Respirator with a particle filter (EN 143):

Full face mask (EN 136) Half-face mask (DIN EN 140)

Filter type: P1

Hand protection: Wear gloves in accordance with EN 388 as a protection against mechanical risks. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection: Wear eyeglasses with side protection according to EN 166.

Body protection: No special protective equipment required.

Thermal hazard protection: Use dedicated equipment.

Not required under normal use.

Engineering control measures: Use only in area provided with appropriate exhaust ventilation. Organisational measures to prevent/limit releases, dispersion and exposure See also section 7

Environmental exposure controls: Do not allow to enter into surface water or drains.

Comply with applicable Community environmental protection legislation.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

Appearance : Powder

Colour: metallic shades (gold, aluminium, copper in appearance)

Odour: odourless

Odour threshold: : No data available Odour threshold: : No data available

pH: Not applicable

Melting point/freezing point: 850°C

Initial boiling point and boiling range: No data available

Flash point : Not applicable

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Evaporation rate : No data available Flammability (solid, gas) : Non-flammable.

Upper/lower flammability or explosive limits: No data available

Vapour pressure : No data available Vapour density : No data available Density : 7,14 - 8,96 g/cm³ @ 20 °C Relative density : No data available

Water solubility: Insoluble

Solubility in different media : No data available Partition coefficient n-octanol/water : Not applicable

Auto-ignition temperature : Not applicable Decomposition temperature : No data available

Viscosity: Not applicable

Explosive properties: Not applicable

The study does not need to be conducted because there are no chemical groups associated with

explosive properties present in the molecule.

Oxidising properties: Not applicable

The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2 Other information:

Other information: (Apparent) Density: 0.6 - 1.4 g/cm<sup>3</sup> @ 20°C

### **SECTION 10: STABILITY AND REACTIVITY**

### 10.1 Reactivity:

Reactivity: None under normal processing.

Reference to other sections: 10.5

### 10.2 Chemical stability:

Stability: The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions:

Possibility of hazardous reactions: Reference to other sections: 10.4

### 10.4 Conditions to avoid:

Conditions to avoid: Remove all sources of ignition. See also section 7

### 10.5 Incompatible materials:

Incompatible materials: Acids and bases, Oxidising substances, Halogens, Halogenated compounds

## 10.6 Hazardous decomposition products:

Hazardous decomposition products: metal oxides

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects:

Acute toxicity: Not classified (Based on available data, the classification criteria are not met.)

Zinc powder - zinc dust (stabilized) (7440-66-6)

LD50/oral/rat > 2000 mg/kg

LC50/inhalation/4h/rat > 5410 mg/m<sup>3</sup>

Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met.)

pH: Not applicable

Serious eye damage/eye irritation: Not classified (Based on available data, the classification criteria are

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not met.)

pH: Not applicable

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are

not met.)

Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure: Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met.)

Zinc powder - zinc dust (stabilized) (7440-66-6)

NOAEL (oral, rat, 90 days) 31,52 mg/kg bodyweight/day

Aspiration hazard: Not classified (Based on available data, the classification criteria are not met.)

### Other information:

Symptoms related to the physical, chemical, and toxicological characteristics, Reference to other sections: 4.2

### **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1 Toxicity:

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

Copper (7440-50-8)	
LC50 fish 1	0,0068 – 0,0156 mg/l (exposure time: 96h – Species: Pimephales promelas)
EC50 Daphnia 1	0,03 mg/l (Exposure time: 48h – Species: Daphnia magna (Static)
LC50 fish 2	<0,3mg/l (Exposure time 96h – Species Pimephales promelas (Static
EC50 72h algae (mg/l) (1)	0,0426 – 0,0535 mg/l (Species Pseudokirchneriella Subcapitata (Static)
EC50 96h algae (mg/l) (1)	0,031 – 0,054 mg/l (Species Pseudokirchneriella Subcapitata (Static)
Zinc powder – zinc dust (sta	bilized) (7440-66-6)
LC50 fish 1	439 μg/l
EC50 Daphnia 1	1833 – 2909 μg/l
EC50 72h algae (mg/l) (1)	0,09 – 0,125 mg/l (Species Pseudokirchneriella Subcapitata (Static)
EC50 96h algae (mg/l) (1)	0,11 – 0,271 mg/l (Species Pseudokirchneriella Subcapitata (Static)
NOEC chronic fish	30 d 169 μg/l
NOEC chronic crustacea	25 – 50 μg/l
Additional information	EC10, algae: 2.5 – 48 μg/l  NOEC, Chronic Toxicity to aquatic plants: 60 μg/l  EC50, microorganisms: 5.2 mg/l  NOEC, aquatic organisms: 10 - 15μg/l  LOEC, aquatic organisms: 10 - 15μg/l



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12.2 Persistence and degradability:

Not applicable

12.3 Bioaccumulative potential:

Bioaccumulation: No data available

Partition coefficient n-octanol/water: Not applicable

12.4 Mobility in soil:

No data available

12.5 Results of PBT and PvB assessment:

Not applicable

12.6 Other adverse effects:

Other information:

### **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods:

Product waste: Do not dispose of together with household waste.

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Delivery to an approved waste disposal company.

Further ecological information: Do not allow to enter into surface water or drains.

List of proposed waste codes/waste designations in accordance with EWC

: Classified as hazardous waste according to European Union regulations.

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

## **SECTION 14: TRANSPORT INFORMATION**

14.1 UN Number:

UN number: 3077

14.2 UN proper shipping name:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Copper () Zinc ()) Proper shipping name IATA/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Copper () Zinc ())

14.3 Transport hazard class(es):

14.3.1 Overland transport

ADR/RID: tunnel restriction code: E

Class(es): 9 - Miscellaneous dangerous substances and articles

Hazard identification number (Kemler No.): 90

Classification code: M7

ADR/RID-Labels: 9 - Miscellaneous dangerous substances and articles

14.3.2 Inland waterway transport (ADN)

Class (UN): 9

14.3.3 Transport by sea

Class or Division: 9 - Miscellaneous dangerous substances and articles

14.3.4 Air transport

Class or Division: 9 - Miscellaneous dangerous substances and articles

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Environmental hazards : N

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Other information: Not applicable.

14.6 Special precautions for user

Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC: Not applicable.

### **SECTION 15: REGULATORY INFORMATION**

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

15.1.1 EU-Regulations

Restrictions on use: Not applicable

This product contains an ingredient according to the candidate list of Annex XIV of the REACH

Regulation 1907/2006/EC. : none Authorisations : Not applicable

15.1.2 National regulations

DE: WGK: 2

DE: TA-Luft: Total dust

DE: Technische Regeln für Gefahrstoffe (TRGS): applicable

FR: Installations classées: 117X

NL: ABM: 4 - Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment. (A)

NL: NeR (Nederlandse emissie Richtlijn): Inorganic substances in powdered form

15.2 Chemical safety assessment:

Chemical Safety Assessment: For this substance a chemical safety assessment has been carried out.

Copper Zinc

### **SECTION 16: OTHER INFORMATION**

Full text of R-, H- and EUH-phrases:

Aquatic Acute 1: Hazardous to the aquatic environment - Aquatic Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - chronic hazard category 3

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.

R50: Very toxic to aquatic organisms.

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

R53: May cause long-term adverse effects in the aquatic environment.

N: Dangerous for the environment

Key literature references and sources for data

: European Metal Particulate Association (EMPA)

Abbreviations and acronyms : ADN = Accord Européen relatif au Transport International des

Marchandises

Dangereuses par voie de Navigation du Rhin

ADR = Accord européen relatif au transport international des marchandises

Dangereuses par Route

CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC

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IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Code

LEL = Lower Explosive Limit/Lower Explosion Limit

UEL = Upper Explosion Limit/Upper Explosive Limit

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

TWA = time weighted average

STEL = Short term exposure limit

PBT = persistent, bioaccumulating and toxic (PBT).

vPvB = very persistent and very bioaccumulating

EWC = European Waste Catalogue

NA = Not applicable

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC, and EEC Commission Regulation 1907/2006/EC (REACH) Annex II. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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