

Safety Data Sheet according to Regulation (EU) No. 1907/2006

**METALRESIN COPPER**

Revision Date: 17/07/2015

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier****METALRESIN COPPER****Relevant identified uses of the substance or mixture and uses advised againstUse:**

Coating material

For details of the identified uses according to REACH-Regulation (EU) No. 1907/2006 refer to the annex of this safety data sheet.

**Details of the supplier of the safety data sheet**

Company	:	PINTURAS KILNHER C/LLanterners 44.P.I. La Figuera 46394 Alacuas – Valencia- Spain
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**SECTION 2: Hazards identification****Classification of the substance or mixture****Regulation (EC) No 1272/2008**

No classification in accordance with the Regulation (EC) No. 1272/2008.

**Directive 67/548/EEC or 1999/45/EC**

No classification according to EC Directives 67/548/EEC or 1999/45/EC.

**Label elements****Regulation (EC) No 1272/2008**

No labeling necessary according to the Regulation (EC) No. 1272/2008.

**Directive 67/548/EEC or 1999/45/EC**

No labeling is required for this material by the Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4), in accordance with EC Directives.

**Other hazards**

No information available.

### SECTION 3: Composition/information on ingredients

**Type of product:** Mixture

#### 3.2 Mixtures

##### No Hazardous components

water-thinnable polyacrylate containing hydroxyl groups ; Concentration [wt.-%]: 40 – 60%

water; Concentration [wt.-%]: 40 – 60%

##### Hazardous components

1-Butoxy-2-propanol

Concentration [wt.-%]: ca. 3.4

Index-No.: 603-052-00-8

EC-No.: 225-878-4

REACH Registration Number: 01-2119475527-28

CAS-No.: 5131-66-8

Classification (1272/2008/CE): Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2 H319

Classification (67/548/EEC): Xi R36/38

##### Candidate List of Substances of Very High Concern for Authorization

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

### SECTION 4: First aid measures

#### Description of first aid measures

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** In case of irritation of the respiratory tract seek medical advice.

**In case of skin contact:** Wash off immediately with soap and plenty of water. Consult a doctor in the event of a skin reaction.

**In case of eye contact:** Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

**If swallowed:** DO NOT induce the patient to vomit, medical advice is required.

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

**Notes to physician:** No information available.

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

**Therapeutic measures:** No information available.

## SECTION 5: Firefighting measures

### Extinguishing media

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

**Unsuitable extinguishing media:** High volume water jet

### Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

### Advice for fire-fighters

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

### Environment related measures

Do not allow to escape into waterways, wastewater or soil.

### Methods and material for containment and cleaning up

Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.

### Reference to other sections

For further disposal measures see section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling

If an annex according to REACH-Regulation (EU) No. 1907/2006 is attached to this MSDS, the general conditions of use are further specified in the corresponding exposure scenarios.

When handling observe the usual precautionary measures for chemicals. Avoid contact with the skin and the eyes.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

Storage class (TRGS 510) : 12: Non Combustible Liquids

### Specific end use(s)

No information available.

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

If an annex according to Regulation (EU) No. 1907/2006 is attached to this MSDS, the general RMMs are further specified in the corresponding exposure scenarios.

**Control parameters**

No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

The neutralizing agent is released during processing.

**Derived No Effect Level (DNEL) or Derived Minimal Effect Level (DMEL)**

**1-Butoxy-2-propanol**

Value type	Route of exposure	Health Effects	Value	Remarks
Worker (long-term)				
DNEL	Inhalation	- systemic effects	270.5 mg/m <sup>3</sup>	
DNEL	Dermal	- systemic effects	44 mg/kg	
General population (long-term)				
DNEL	Inhalation	- systemic effects	33.8 mg/m <sup>3</sup>	
DNEL	Oral	- systemic effects	8.75 mg/kg	
DNEL	Dermal	- systemic effects	16 mg/kg	

**Predicted No Effect Concentration (PNEC)**

**1-Butoxy-2-propanol**

Compartment	Value	Remarks
Freshwater	0.525 mg/l	
Marine water	0.0525 mg/l	
Intermittent use/release	5.25 mg/l	
STP (sewage-treatment plant)	10 mg/l	
Freshwater sediment	2.36 mg/kg	
Marine sediment	0.236 mg/kg	
Soil	0.16 mg/kg	

**Exposure controls**

**Respiratory protection**

Respiratory protection required in insufficiently ventilated working areas and during spraying.

Further recommendations regarding respiratory protection can be found in the individual exposure scenarios in the appendix.

**Hand protection**

Suitable materials for safety gloves; EN 374:

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Recommendation: contaminated gloves should be disposed of.

**Eye protection**

Wear eye/face protection.

**Skin and body protection**

Wear suitable protective clothing.

**SECTION 9: Physical and chemical properties**
**Information on basic physical and chemical properties**

Appearance:	liquid	
Colour:	white	
Odour:	slight inherent odour	
Odour Threshold:	not established	
pH:	ca. 8.2 at 22 °C (Determined in a 10 % aqueous solution)	
Pour point:	ca. 0 °C	ISO 3016
Initial boiling point:	ca. 96 °C at 1,013 hPa	EG A2
Flash point:	No flash point up to initial boiling point.	DIN EN ISO 2719
Evaporation rate:	not established	
Flammability (solid, gas):	not established	
Burning number:	not applicable	
Upper/lower flammability or explosive limits:		
1-Butoxy-2-propanol	upper: 11.4 %(V) / lower: 1.1 %(V)	
Vapour pressure:	ca. 25 hPa at 20 °C	EG A4
	ca. 124 hPa at 50 °C	EG A4
	ca. 155 hPa at 55 °C	EG A4
Vapour density:	not established	
Density:	ca. 1.05 g/cm <sup>3</sup> at 20 °C	DIN 51757
Miscibility with water:	miscible at 15 °C	
Surface tension:	not established	
Partition coefficient (n-octanol/water):	not established	
Auto-ignition temperature:	not applicable	
Ignition temperature:	ca. 410 °C at 980 hPa	DIN 51794
Decomposition temperature:	not established	
Viscosity, dynamic:	ca. 83 mPa.s at 20 °C	DIN 53019
	Shear gradient D = ca. 100 /s	
	not established	
Dust explosion class:	not applicable	
Oxidising properties:	not established	

**Other information**

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

**SECTION 10: Stability and reactivity**
**Reactivity**

This information is not available.

**Chemical stability**

No thermal decomposition when stored and handled correctly.

**Possibility of hazardous reactions**

This information is not available.

**Conditions to avoid**

This information is not available.

## Incompatible materials

This information is not available.

## Hazardous decomposition products

On drying of the coating / hardening release of neutralising agent. (see section 3)

## SECTION 11: Toxicological information

Toxicological studies on the product are not yet available.

Please find below the data available to us:

### 11.1 Information on toxicological effects

#### Acute toxicity, oral

Polyacrylate dispersion

LD50 rat: > 5,000 mg/kg

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

LD50 rat: ca. 3,300 mg/kg

Method: OECD Test Guideline 423

#### Acute toxicity, dermal

1-Butoxy-2-propanol

LD50 rat: > 2,000 mg/kg

Method: OECD Test Guideline 402

#### Acute toxicity, inhalation

1-Butoxy-2-propanol

LC50 rat: > 3.4 mg/l, 4 h

Assessment: The substance or mixture has no acute inhalation toxicity

Test atmosphere: vapour

#### Primary skin irritation

Polyacrylate dispersion

Species: rabbit

Result: non-irritant

Classification: No skin irritation

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

Species: rabbit

Result: irritating

Classification: Causes skin irritation.

Method: OECD Test Guideline 404

#### Primary mucosae irritation

Polyacrylate dispersion

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

Species: rabbit

Result: irritating

Classification: Causes serious eye irritation.

Method: OECD Test Guideline 405

#### Sensitisation

Polyacrylate dispersion

Skin sensitization (local lymph node assay (LLNA)):

Species: mouse

Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 429

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

Skin sensitisation:

Species: guinea pig

Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Respiratory sensitization

No data available.

### **Subacute, subchronic and prolonged toxicity**

No data available.

### **Carcinogenicity**

1-Butoxy-2-propanol

### **Reproductive toxicity/Fertility**

No data available.

### **Reproductive toxicity/Teratogenicity**

1-Butoxy-2-propanol

### **Genotoxicity in vitro**

Polyacrylate dispersion

Test type: Salmonella/microsome test (Ames test)

Result: No indication of mutagenic effects.

Method: OECD Test Guideline 471

Toxicological studies of a comparable product.

1-Butoxy-2-propanol

Test type: Salmonella/microsome test (Ames test)

Result: No indication of mutagenic effects.

Test type: In vitro mammalian cell gene mutation test

Result: negative

### **Genotoxicity in vivo**

No data available.

### **STOT evaluation – one-time exposure**

1-Butoxy-2-propanol

Based on available data, the classification criteria are not met.

### **STOT evaluation – repeated exposure**

1-Butoxy-2-propanol

Based on available data, the classification criteria are not met.

### **Aspiration toxicity**

1-Butoxy-2-propanol

No data available.

### **CMR Assessment**

1-Butoxy-2-propanol

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Please find below the data available to us:

### Toxicity

#### Acute Fish toxicity

Polyacrylate dispersion

LC50 > 100 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 96 h

Method: OECD Test Guideline 203

Ecotoxicological reports on a comparable product

1-Butoxy-2-propanol

LC50 > 100 mg/l

Species: Pimephales promelas (fathead minnow)

Exposure duration: 96 h

#### Acute toxicity for daphnia

1-Butoxy-2-propanol

EC50 > 1,000 mg/l

Test type: static test

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

#### Acute toxicity for algae

1-Butoxy-2-propanol

EC50 > 1,000 mg/l

Test type: static test

endpoint: Growth inhibition

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 96 h

#### Acute bacterial toxicity

Polyacrylate dispersion

EC50 > 10,000 mg/l

Species: activated sludge

Method: OECD Test Guideline 209

Ecotoxicological reports on a comparable product

1-Butoxy-2-propanol

EC50 > 1,000 mg/l

Species: activated sludge

Exposure duration: 180 min

Method: OECD Test Guideline 209

#### Persistence and degradability

##### Biodegradability

Polyacrylate dispersion

Biodegradation: 5 %, 28 d, i.e. not readily degradable

Method: OECD Test Guideline 301 D

Ecotoxicological reports on a comparable product

1-Butoxy-2-propanol Test

type: aerobic Inoculum:

activated sludge

Biodegradation: 90 %, 28 d, i.e. readily biodegradable

Method: OECD Test Guideline 301 E



**Bioaccumulative potential****Bioaccumulation**

1-Butoxy-2-propanol

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**Partition coefficient (n-octanol/water)**

1-Butoxy-2-propanol

log Pow: 1.2 at: 20 °C

Method: OECD Test Guideline 117

**Mobility in soil**

No data available.

**Results of PBT and vPvB assessment**

1-Butoxy-2-propanol

This substance does not meet the criteria for classification as PBT or vPvB.

**Other adverse effects**

1-Butoxy-2-propanol

The product contains none organically bound halogens.

**SECTION 13: Disposal considerations**

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

**13.1 Waste treatment methods**

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

**SECTION 14: Transport information****ADR/RID**

UN number	:	Not dangerous goods
UN proper shipping name	:	Not dangerous goods
Transport hazard class(es)	:	Not dangerous goods
Packing group	:	Not dangerous goods
Environmental hazards	:	Not dangerous goods

**ADN**

UN number	:	Not dangerous goods
UN proper shipping name	:	Not dangerous goods
Transport hazard class(es)	:	Not dangerous goods
Packing group	:	Not dangerous goods
Environmental hazards	:	Not dangerous goods

This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.

**IATA**

UN number	:	Not dangerous goods
UN proper shipping name	:	Not dangerous goods
Transport hazard class(es)	:	Not dangerous goods
Packing group	:	Not dangerous goods
Environmental hazards	:	Not dangerous goods

**IMDG**

UN number	:	Not dangerous goods
UN proper shipping name	:	Not dangerous goods
Transport hazard class(es)	:	Not dangerous goods
Packing group	:	Not dangerous goods
Environmental hazards	:	Not dangerous goods

**Special precautions for user**

See section 6 - 8.

Additional information	:	Not dangerous cargo. Avoid heat above +30 °C. Avoid temperatures below +5 °C. Keep away from foodstuffs, acids and alkalis.
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**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Directive 96/82 EC (Seveso II Directive)**

Revision:	2003
Listed in regulation:	Directive 96/82/EC does not apply

**Water contaminating class (Germany)**

1 slightly water endangering  
(in accordance with Annex 4 to the Directive on Water-Hazardous Substances)

Any existing national regulations on the handling of solvents must be observed.

**Chemical Safety Assessment**

**A Chemical Safety Assessment has been carried out for:**

1-Butoxy-2-propanol

**SECTION 16: Other information****Full text of hazardous (H) warnings referred to under sections 2, 3 and 10 of the CLP classification (1272/2008/CE).**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

**Full text of R-phrases referred to under sections 2, 3 and 10 of the EU classification (67/548/EEC,1999/45/EC).**

R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

**Further information**

The information provided in this 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty 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.