

**1. Identification of the substance/Preparation and of the Company/Undertaking**

Identification of the substance or preparation

Tradename

**Aqua Metallic Gold, Silver and Copper**

Productcode

**8431, 8432, 8433**

Use of the substance/preparation

Recommended use(s):

Physical as pigment in inks, in paints, in plastics

Effect(s) of the substance/preparation:

Silver color, Cold color and Copper colour

Company/ undertaking identification

**Manufacturer**

Centimo BV

Steenwijkerveld 21

1424 RP De Kwakel

Holland

Tel: +31 297 531 830

E-mail: info@centimo.nl

Emergency Phone: +31 297 531 830

**Distributor**

Centimo BV

Steenwijkerveld 21

1424 RP De Kwakel

Holland

Tel: +31 297 531 830

E-mail: info@centimo.nl

Emergency Phone: +31 297 531 830

**2. Composition/Information on ingredients**

Full text of R-Phrases: see under section 16

Chemical characterisation of the ingredient(s) (in the preparation)

	Hazard(ous) ingredient(s):	% weight:	CAS-N°.	EC-N°.	Symbols	R-Code
Name:IUPAC	Propylene Glycol Ether	15,20,25,30,35			none	none
Name:IUPAC	Aluminium powder	85,80,75,70,65	7429-90-5	231-072-3	F	R10,R15
Name:IUPAC						
Hazard(ous) impurity(ies):						
Additional information:	None					

**3. Hazards identification**

See Annex "Hazard(ous) Symbol(s)"

Hazard designation: Classification;

R-Code

R-Phrases

None

None

Specific hazard(s)

No special remarkable hazards.

**4. First-aid measures**

General information:

In case of serious disturbances or if symptoms persist, seek medical advice immediately.

On inhalation

Remove victim to fresh air. Seek medical advice if breathing difficulty persists.

On contact with skin:

Wash off subsequently with soap and water

On contact with eyes:

On contact with the eyes, rinse the eyes with water with the eyelids open for a sufficient length of time, then seek medical (ophthalmological) advice immediately.

If swallowed:

Rinse mouth out thoroughly with water. Do not induce vomiting.

Self-protection of first aider:

None

Information for the doctor:

No data available.

**5. Fire-fighting measures**

Suitable extinguishing media:

In its beginning with ABC-powders later with Dry sand

Extinguishing media which must not be used for safety

Water.

Special protective equipment for firefighting:

Use suitable breathing apparatus

**6. Accidental release measures**

Personal precautions:

Avoid contact with skin and eyes. Wear protective clothing as for normal activities (see 8).  
Remove ignition sources.

Environmental precautions:

Do not allow to enter drains/surface waters/groundwater

Method for cleaning up / taking up:

Remove immediately with rubber shovel and put down in a lockable drum. DO NOT USE A VACUUM CLEANER! Then clean up with dry sand.

## 7. Handling and storage

### Handling:

Hints for safe handling:

Protective measures:

If local exhaust ventilation is impossible or insufficient, provide sufficient ventilation of the workplace. Avoid contact with skin and eyes.

Technical measures:

Measures to prevent aerosols and dust

None

Measures required to protect the environment:

None

Specific requirements or rules:

None

Hints for protection against fire and explosion:

None

### Storage

Technical measures and storage conditions:

Keep container closed when not in use.

Packaging materials:

All

Further information on storage conditions:

Keep container tightly closed when not in use. Maximum storage duration (time): UNKNOWN

## 8. Exposure limitation and personal protective equipment

### Exposure limits:

Constituents with occupational exposure limits resp.

Biological occupational exposure limits requiring

--- conditions ---

Occupational exposure limits:

Biological occupational exposure limits:

Additional exposure limits under the conditions of

Monitoring procedures:

Remark(s):

Provide adequate ventilation.

### Exposure controls:

Occupational exposure controls:

Personal protection equipment

Respiratory protection:

None.

Hand protection:

Gloves.

Eye protection:

Safety glasses.

Protective clothing:

Normal working clothes.

General health and safety measures:

/

Environmental exposure controls

See section 7. No additional measures necessary.

Remark(s):

None

## 9. Physical and chemical Properties

### Method

### General information

Appearance

Physical state:

Colour:

Odour:

### OF THE PREPARATION

Solid: Paste

Silver

Odourless

### Important health, safety and environmental information

pH-value

Physical state change

Melting-point / Melting range

Boiling point / Boiling range:

Flash point:

Dust explosive properties:

Explosion limits in air:

Lower explosion limit:

Upper explosion limit:

Vapour pressure:

Density:

Bulk density:

Solubility in water:

Solubility in other solvents:

Hydrolysis rate:

Partition coefficient n-octanol / water (log p O/W)

Viscosity

Solvent separation test:

Solvent content (%)

Solid content (%)

Relative vapour density (air = 1)

Vapourization rate:

### OF THE POWDER

not applicable

aluminium metal 620°C

+/- 2500°C

### OF THE SOLVENT

-78°C

243°C

121°C

1.1%v/v

7.0%v/v

0.02 mbar

not applicable

not applicable

+/- 2 kg/l

insoluble

no

Complete

not applicable

not applicable

<3

0.966 @ 20°C

Additional information:

### 10. Stability and Reactivity

Conditions to avoid: High temperatures, sparkles, flames.  
 Materials to avoid: Intense reaction with: acids, bases, chlorinated solvents, oxidants.  
 Hazardous decomposition products: No hazardous decomposition products known.  
 Further informations: None

### 11. Toxicological information ( OF THE SOLVENT )

#### Method

Toxicity test:

	LD50	LC50
Acute toxicity:		
Oral mg/kg	3200	
Dermal mg/kg		
Inhalative mg/l		
Specific symptoms in animal studies:	Suspiscion being none toxic.	
Irritant-/corrosive effects		
to skin	Suspiscion being none irritant.	
to eye	May be slightly irritant.	
Sensitization:		
After skin contact		
After eye contact		
Subacute to chronic toxicity:		
Carcinogenic, mutagenic and reproductive toxic effects	None.	
Other informations:	May cause dizziness or sleepyness.	
General remarks:		

### 12. Ecological information ( OF THE SOLVENT )

#### Method

	LC50	LC0	EC50	EC0	LD50	IC50
Ecotoxicity						
Aquatic toxicity						
Acute fish toxicity	>100		>100			>100
Longterm fish toxicity:	>100		>100			>100
Acute daphnia toxicity mg/L	>100		>100			>100
Chronic daphnia toxicity	>100		>100			>100
Algae toxicity	>100		>100			>100
Bacteria toxicity: mg/L	>100		>100			>100
Terrestrial toxicity						
Plant toxicity						
Behaviour in waste water treatment plants	Waste water treatment:filtration.					
Mobility	High; 0<Koc<50					
Information about elimination (persistence and degradation)	OECD301F					
Taking up and accumulation in organism (bioaccumulation potential)	Readily biodegradable. 60%					
Other adverse effects	Low					
Further ecological information:						

### 13. Disposal considerations

Disposal/Waste (product): Disposal in accordance with EC Directive 91/692/EEC.  
 List of proposed waste codes/waste designations in accordance with EWC: Dispose of by means of special treatment in adequate combustion furnace, in accordance with national and local regulations.  
 Packages: Dispose of by means of special treatment in adequate combustion furnace, in accordance with national and local regulations.

### 14. Transport information

	UN-N°:	Class:	Classification	Packing group	Label	Marine poll	Remarks
Land transport (ADR/GGVS, RID/GGVE)							
<b>Proper shipping name;</b>	Not hazardous material as defined by the transport regulation						
Marine transport (IMDG)							
<b>Proper shipping name;</b>	Not hazardous material as defined by the transport regulation						
Air Transport (ICAO/IATA)							
<b>Proper shipping name;</b>	Not hazardous material as defined by the transport regulation						
Transport / Further informations	None						

## 15.Regulatory information

### Labelling

Hazard(ous) symbol(s) and indication(s) of danger for dangerous substances and preparations:

Hazard(ous) component(s) to be indicated on label:symbol(s) and indication(s) of danger for dangerous substances and preparations:

R-phrases: None None

S-phrases: S7/8 Keep container tightly closed and dry.  
S24/25 Avoid contact with skin and eyes.  
S43 In case of fire use dry sand. NEVER USE WATER!

### Remark:

Special provisions concerning the labelling of certain preparations:

### National regulations

Water hazard class:

Informations according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-

## 16.Other information

\* Data changed compared with the previous version.

Relevant R-phrases (Number and full text):

Training advice: None

Recommended restriction(s) on use: Do not use in household.

Further information:

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## 17.Dimension