

# Safety Data Sheet

According To Regulation (EC) 1907/2006 (REACH)

## METALIUM EFFECT (C) COMPANENT (COPPER)

Version: 3.0  
Form No: 330083

Preparation Date : 06/06/2018  
Revision Date: 14/04/2020

### 1.IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

**Product Name** METALIUM EFFECT (C) COMPANENT(COPPER)  
**Product Code** 1518  
**SDS No** 330083  
**Description** Special metal powderss, Copper

#### 1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses Suitable for Suitable for interior

Uses Advised Against See chapter 16 for a general overview

#### 1.3 Details Of The Supplier Of The Safety Data Sheet

**Manufacturer Company** DEKA BOYA SANAYİ VE TİCARET A.Ş.  
**Address** S.S.İstanbul Mermerciler Küçük San.Sitesi Yapı Koop.  
34.Cd.No:3 41490 Dilovası - Kocaeli / TURKEY  
**Telephone** +90(262) 728 10 88 (Pbx)  
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**Company E-mail** [info@sandeco.com.tr](mailto:info@sandeco.com.tr)  
**Company Web Page** [www.sandeco.com.tr](http://www.sandeco.com.tr)

#### 1.4 Information Providing Authority About Safety Data Sheet

Kenan HAYAL – [kenan.hayal@dekaboya.com.tr](mailto:kenan.hayal@dekaboya.com.tr)

#### 1.5 Emergency Telephone Number

Company Emergency +90(216) 575 56 56 (Pbx)

### 2.HAZARDS IDENTIFICATION

#### 2.1 Classification Of The Product

##### 2.1.1 Classification According to Regulation (EC) No 1272/2008

Aquatic Acute 1, Aquatic Chronic 3

#### 2.2 Label elements

##### 2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP<sup>1</sup>/GHS<sup>2</sup>]

#### Product Identifier



#### Hazard Pictograms

#### Signal Word

WARNING

#### Hazard Statements

H400 Very toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects.



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### Precautionary Statements

P273 Avoid release to the environment

P391 Collect Spillage

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

The substances in the mixture do not meet the criteria for PBT or vPvB substances

Classification System is according to latest editions of EU lists and is extended by company and literature data.

### 2.4. Additional Information

Full text of H- and EUH-phrases: see section 16.

## 3.COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Description Of The Substance

Synonyms: None

### 3.2 Hazardous ingredients

NAME	EINECS NO	CAS NO	CONTENT %	CLASSIFICATION CLP
Copper	231-159-6	7440-50-8	Min.95	Aquatic Chronic 1 H400 Aquatic Chronic 3 H412

### 3.3 Additional information

Full text of H- and EUH-phrases: see section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 General advice.

First aid followed by medical attention.

#### 4.1.2 Following inhalation

Move exposed person to fresh air. Keep warm and at rest. Seek medical attention as soon as possible.

#### 4.1.3 Following skin contact

Wash with mild soap and water. Generally the product does not irritate the skin. Seek medical advice if irritation occurs/persists.

#### 4.1.4 Following eye contact

Rinse opened eye for several minutes under running water. Seek medical attention if irritation persists.

#### 4.1.5 Following Ingestion

Wash mouth out with water, seek medical attention if symptoms occur.

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

Exposure by inhalation (large quantities) will produce symptoms called metal fume fever, influenza type symptoms which last 24-48 hours.

Copper may cause irritation to upper respiratory tract, metallic taste, discoloration of skin and hair.

Ingestion or inhalation of large quantities may cause nausea or vomiting.



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*Dust irritates nose and trachea, in certain individuals skin contact for long periods may cause irritation and possible dermatitis.*

*Copper may cause gastro enteric problems.*

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

*Treat symptomatically.*

## **5.FIRE- FIGHTING MEASURES**

### **5.1 Extinguishing media**

#### **Suitable extinguishing agents:**

*Dry sand*

*dry powder extinguisher*

*fire blanket*

#### **Extinguishing Media not suitable for safety reasons:**

*Liquid based extinguishers must not be used on molten metal.*

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

*Carbon oxides, Borane/boron oxides*

### **5.3 Advice for fire-fighters**

*Wear self-contained breathing apparatus for firefighting if necessary.*

### **5.4 Further information**

*No data available*

## **6.ACCIDENTAL RELEASE MEASURES**

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

*Wear protective equipment.*

*Keep unprotected persons away.*

*Avoid formation of dust*

### **6.2. Environmental precautions**

*Do not allow product to reach ground water, water bodies or sewerage system*

### **6.3. Methods and material for containment and cleaning up**

*Pick up manually or vacuum.*

### **6.4. Reference to other sections**

*See also sections 8 and 13*

## **7.HANDLING AND STORAGE**

### **7.1. Precautions for safe handling :**

*Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.*

### **7.2. Conditions for safe storage, including any incompatibilities**

*Store in cool place. Keep container tightly closed in a dry and well-ventilated place.*

### **7.3. Specific end use(s)**

*None*



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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

##### EXPOSURE LIMIT VALUES:

TLV - TWA (ACGIH, 2009) Cu 0.2 mg/m<sup>3</sup> (fumes);

TLV – TWA (ACGIH, 2009) Cu 1 mg/m<sup>3</sup> (dusts and mists);

EXPOSURE PATTERN	ROUTE	DESCRIPTOR	DNEL
Human- Long-term - systemic effects	Oral, dermal and inhalation		0.041mg Cu/kg body weight/day
Human- Short-term - systemic effects	Oral, dermal and inhalation	Internal dose DNEL (Derived No Effect Level) Using absorption factors of 25% for oral, 100% for inhalation (respirable) and 0.03% for dermal exposure routes	0.082mg Cu/kg body weight/day
Human- Short-term – effects- drinking water	Oral	A NOAEL for drinking water	4mg/L

National exposure control limits must be considered where appropriate.

#### 8.2. Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

###### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

###### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

###### Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### General Safety and Hygiene measures

Do not eat or drink while working with the product. Wash hands before breaks and at the end of work. Control of environmental exposure

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a) Appearance Form	powder
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point	859-1069 °C
f) Boiling point	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available

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i) Flammability (solid, gas)	No data available
j) Vapour pressure	No data available
k) Vapour density	No data available
l) Relative density	8,78 g/cm <sup>3</sup> at 25 °C
m) Water solubility	No data available
n) Partition coefficient: n-	No data available octanol/water
o) Auto-ignition	No data available temperature
p) Decomposition	No data available temperature
q) Viscosity	No data available

### 9.2. Other information

No additional information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No decomposition in usual conditions

### 10.2 Chemical stability

Stable under normal conditions of use

### 10.3 Possibility of hazardous reactions

May yield hydrogen and noxious copper compounds if affected by unsuitable materials

### 10.4 Conditions to avoid:

Avoid dust formation and contact with acids

### 10.5 Incompatible materials:

Strong acids

### 10.6 Hazardous decomposition products:

No data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Copper

Oral

LD-50 rats >2000mg/kg body weight

Not classified

Dermal

Not classified

Inhalation

Fractions with d<sub>50</sub> > 10 µm

not classified

Fractions with <10 µm

LD-50 rats 1-5 g/m<sup>3</sup> air

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity



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No data available

### **Specific target organ toxicity-single exposure**

No data available

### **Specific target organ toxicity-repeated exposure**

No data available

### **Aspiration hazard**

No data available

## 12.ECOLOGICAL INFORMATION

### **12.1.1 Acute aquatic toxicity:**

Cu: Toxicity for pH = 5.5-6.5 L(E)C50 of 25.0 µg Cu/L (Van Sprang et al., 2010, in Copper Chemical Safety Report (CSR), 2010). M-factor: 1

### **12.1.2 Chronic freshwater toxicity:**

Cu: Not classified (Predicted No-Effect Concentration (PNEC): 7,8 µg/l is the value of dissolved Cu/l to be used to assess local risks)

### **12.1.3 Chronic marine waters toxicity:**

Cu: Not classified (PNEC: 5.2 µg/l is the value of dissolved Cu/l to be used to assess local risks)

### **12.1.4 Chronic freshwater sediment toxicity:**

Cu: Freshwater sediment PNEC is: 87 mg Cu/kg dry sediment weight

### **12.1.5 Chronic marine water sediment toxicity:**

12.1.6 Soil toxicity: Cu: Soil PNEC: 65.5 mg Cu/kg dry weight of soil

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

Cu: Copper-ions bind strongly to the soil matrix. The binding depends on the soil properties. A median water-soil partitioning coefficient ( $K_p$ ) of 2120 L/kg has been derived.

### **12.5 Results of PBT and vPvB assessment**

The mixture does not contain PBT or vPvB substances

### **12.6 Other adverse effects**

Copper is not expected to contribute to ozone depletion, ozone formation, global warming or acidification.

## 13.DISPOSAL CONSIDERATIONS

### **Product:**

Remove in accordance with local official regulations. Dispose of at a hazardous waste landfill. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### **Used packaging material:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully).

## 14.TRANSPORT INFORMATION

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	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	3077	3077	3077
<b>14.2 UN Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (COPPER POWDER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (COPPER POWDER)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (COPPER POWDER)
<b>14.3 Transport Hazard Class(es)</b>	9	9	9
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental Hazards</b>	Classified as hazardous	Classified as hazardous	Classified as hazardous
<b>14.6 Special Precautions for user</b>	(*)	EmS: F-A, S-F (*)	(*)
<b>14.7 Transport in Bulk according to Annex II of Marpol73/78 and the IBC code</b>	Not applicable	Not applicable	Not applicable
<b>14.8 Labelling</b>			
(*)The transport, comprising charge and discharge, must be made by people who have been trained on 'Dangerous Goods Regulation			

### 15. REGULATORY INFORMATION

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

The mixture is NOT subject to:

- Regulation (EC) n. Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer;
- Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants;
- Regulation (EC) n. 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals.

#### 15.2 Chemical Safety Assessment

Has been carried out for copper

### 16. OTHER INFORMATION

#### 16.1 Other information

For additional information regarding **DEKA BOYA SANAYİ VE TİCARET A.Ş** products and services please contact the **DEKA BOYA SANAYİ VE TİCARET A.Ş** +90(216) 575 56 56 (Pbx)

The above information complies with the 1907/2006 Directives and their amendments. In all cases of potential poisoning supportive therapy is of the utmost importance.

#### 16.2 Related Person



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DEKA BOYA SANAYİ VE TİCARET A.Ş

Prepared by : Uğur BİLGİLİ

Competent Person Accreditation no: TSE GBF-A-2350

### 16.3 Revision Date, Version and SDS no

Date : April 14, 2020

Version : 3.0/EN

SDS No : 330083

### 6.4 Reason of re-issue

Compiling according to Regulation (EC) No 1272/2008[CLP /GHS]

### 16.5 Relevant H- and EUH-phrases (number and full text):

H400 Very toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects.

### 16.6 Legal disclaimer

The purpose of the above information is to describe the products only in terms of health and safety requirements.

The information given should not, therefore, be construed as guaranteeing specific properties or as specification.

Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

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 above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

1 CLP : Classification Labeling and Packaging

2 GHS : Global Harmonised System

3 TLV :Threshold Limit Value

4 TWA: A Time-Weighted Average

5 STEL: A Short Term Exposure Limit

6 mg/m<sup>3</sup>: the amount of the Material in milliliters in 1 m<sup>3</sup> air At 20 oC & 101, 3 KPa.

7 Ppm: parts per million, the amount of the Material in milliliters in 1 m<sup>3</sup> air. (ml/m<sup>3</sup>)

8 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

9 RID : Regulations Concerning the International Transport of Dangerous Goods by Rail

10 IMDG: International Maritime Code for Dangerous

11 Goods ICAO: International Civil Aviation Organization

12 IATA: International Air Transport Association