Safety Data Sheet

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

METALIUM EFFECT (C) COMPANENT (BRASS)

Version:	*3.0*	*Preparation Date :*	*06/06/2018*
Form No:	*330085*	*Revision Date:*	*14/04/2020*

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

Product Identifier

Product Name	***METALIUM EFFECT (C) COMPANENT(BRASS)***
Product Code	*1518*
SDS No	*330085*
Description	*Special metal powderss,Brass*

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

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)*
Fax	*+90(262) 728 10 71*
Company E-mail	*info@sandeco.com.tr*
Company Web Page	*www.sandeco.com.tr*

Information Providing Authority About Safety Data Sheet

Kenan HAYAL – kenan.hayal@dekaboya.com.tr

Emergency Telephone Number

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

2.HAZARDS IDENTIFICATION

Classification Of The Product

Classification According to Regulation (EC) No 1272/2008

Aquatic Acute 1, Aquatic Chronic 3

Label elements

Labeling According to Regulation (EC) No 1272/2008 [CLP[1]/GHS[2]]

Product Identifier

Hazard Pictograms

Signal Word

WARNING

Hazard Statements

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

Precautionary Statements
P273 Avoid release to the environment
P391 Collect Spillage
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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.
Additional Information
Full text of H- and EUH-phrases: see section 16.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Description Of The Substance
Synonyms: None

Hazardous ingredients

NAME	EINECS NO	CAS NO	CONTENT %	CLASSIFICATION CLP
Copper	*231-159-6*	*7440-50-8*	*50-85*	*Aquatic Chronic 1 H400* *Aquatic Chronic 3 H412*
Zinc	*231-175-3*	*7440-66-6*	*15-50*	*Aquatic Chronic 1 H400* *Aquatic Chronic 1 H410*

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

4. FIRST AID MEASURES

Description of first aid measures
General advice.
First aid followed by medical attention.
Following inhalation
Move exposed person to fresh air. Keep warm and at rest. Seek medical attention as soon as possible..
Following skin contact
Wash with mild soap and water. Generally the product does not irritate the skin. Seek medical advice if irritation occurs/persists.
Following eye contact
Rinse opened eye for several minutes under running water. Seek medical attention if irritation persists.
Following Ingestion

5.FIRE- FIGHTING MEASURES

Extinguishing media
Dry sand, dry powder extinguisher, fire blanket.
Decomp Products
Carbon oxides, Borane/boron oxides
Fire hazards
Extinguishing Media not suitable for safety reasons:
Liquid based extinguishers must not be used on molten metal.
Protective equipment
Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear protective equipment. Keep unprotected persons away. Avoid formation of dust
Large Spill or Leak
Do not allow product to reach ground water, water bodies or sewerage system.
Pick up manually or vacuum.

7.HANDLING AND STORAGE

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

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:
*TL**V - TWA (ACGIH, 2009) Cu 0.2 mg/m3 (fumes); Zn 5 mg/m3 (fumes)***
***TLV** – TWA (ACGIH, 2009) Cu 1 mg/m3 (dusts and mists); Zn 10 mg/m3 (dust)*

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

DNEL (INHALATION OF INSOLUBLE Zn) = 5 mg/m3
National exposure control limits must be considered where appropriate.

Exposure controls

Appropriate engineering controls Personal Protective equipment :

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

Ventilation:

Preferably Local exhaust ventilation (LEV) must be sufficient to keep concentration below occupational exposure limit

Respiratory protection:

Particulate cartridge filter type when LEV cannot be supplied.

Hand Protection

Gloves: consult manufacturer for suitable specification. A suitable barrier cream is recommended.

Eye Protection

Tight safety goggles.

Body Protection

Protective work clothing

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.

9.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	*860-1050 °C*
f) Boiling point	*No data available*
g) Flash point	*Not applicable*
h) Evaporation rate	*No data available*
i) Flammability (solid, gas)	*No data available*
j) Vapour pressure	*No data available*
k) Vapour density	*No data available*
l) Relative density	*8,0-8,7 g/cm³ 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*

Other information

No additional information available.

10.STABILITY AND REACTIVITY

Reactivity

No decomposition in usual conditions

Chemical stability

Stable under normal conditions of use

Possibility of hazardous reactions

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

Conditions to avoid:
Avoid dust formation and contact with acids
Incompatible materials:
Strong acids
Hazardous decomposition products:
No data available

11.TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity

	Copper	Zinc
Oral	LD-50 rats >2000mg/kg body weight Not classified	LD-50 rats >2000mg/kg body weight Not classified
Dermal	Not classified	Not classified
Inhalation	Fractions with d50 > 10 µm not classified Fractions with <10 µm LD-50 rats 1-5 g/m3 air	Not classified

Skin corrosion/irritation
Not classified
Serious eye damage/eye irritation
Not classified
Respiratory or skin sensitisation
Not classified
Germ cell mutagenicity
Not classified
Carcinogenicity
Not classified
Reproductive toxicity
Not classified
Specific target organ toxicity-single exposure
Not classified
Specific target organ toxicity-repeated exposure
Not classified
Aspiration hazard
Not classified

12.ECOLOGICAL INFORMATION

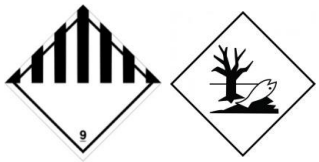
Acute aquatic toxicity:
Copper: Toxicity for pH = 5.5-6.5 L(E)C50 of 25.0 µg Cu/L (Van Sprang et al., 2010, in Copper Chemical Safety Report (CSR), 2010). M-factor: 1
Zinc : Toxicity for pH < 7: EC50 = 0.9 mg Zn/l 48h (Dubia Ceriodaphnia) Toxicity for pH > 7 – 8.5: EC50 = 0.3 mg Zn/l 72h (Selenastrum capricornutum). M-factor: 1
Chronic freshwater toxicity:
Copper: 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)
Zinc :PNEC :20.6 µg Zn/l

Chronic marine waters toxicity:
Copper: Not classified (PNEC: 5.2 µg/l is the value of dissolved Cu/l to be used to assess local risks)
Zinc : PNEC: 6.1 µg Zn/l
Chronic freshwater sediment toxicity:
Copper: Freshwater sediment PNEC is: 87 mg Cu/kg dry sediment weight
Zinc : Freshwater sediment PNEC is: 235.6 mg Zn/kg dry sediment weight.
Chronic marine water sediment toxicity:
Copper:-
Zinc: Freshwater sediment PNEC is: 113 mg Zn/kg dry sediment weight.
Soil toxicity
Copper: Soil PNEC: 65.5 mg Cu/kg dry weight of soil
Zinc: Soil PNEC: 106.8 mg/kg dry weight of soil
Toxicity to micro-organisms in STP:
Copper:-
Zinc: PNEC in Sewage Treatment Plant: 52 µg Zn/l
Mobility in soil
Copper:Copper-ions bind strongly to the soil matrix. The binding depends on the soil properties. A median water-soil partitioning coefficient (Kp) of 2120 L/kg has been derived.
Zinc: A median water-soil partitioning coefficient (Kp) of 158 L/kg has been derived.
The mixture does not contain PBT or vPvB substances
Persistence & degradability
Not classified
Bioaccumulative potential
Not classified
Results of PBT and vPvB assessment
The mixture does not contain PBT or vPvB substances
Other adverse effects
Copper and Zinc are 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). Containers may be recycled or re-used. Observe local/state/federal regulations.

14.TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1 UN number	3077	3077	3077
14.2 UN Proper shipping name	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
14.3 Transport Hazard Class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental Hazards	Classified as hazardous	Classified as hazardous	Classified as hazardous
14.6 Special Precautions for user	(*)	EmS: F-A, S-F (*)	(*)
14.7 Transport in Bulk according to Annex II of Marpol73/78 and the IBC code	Not applicable	Not applicable	Not applicable
14.8 Labelling			

(*)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

Kenan HAYAL – kenan.hayal@dekaboya.com.tr
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 : 330085

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
H410 Very toxic to aquatic life with long lasting effects
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/m³: the amount of the Material in milliliters in 1 m3 air At 20 oC & 101, 3 KPa.
7 Ppm: parts per million, the amount of the Material in milliliters in1 m3 air. (ml/m3)
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