

SAFETY DATA SHEET

According to Regulation (EC) No 2015/830

Date Prepared: 30.10.2018
Form No: GBF201810300634



Product Name: **ZINC OXIDE**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : FEED ZINC OXIDE

Chemical Family : Mineral

Identified Use : Animal feed additive'

Uses advised against : No specific uses advised against are identified.

Details of the manufacturer and supplier of the safety data sheet :

Company name: Meb Metal ve Bileşikleri San. Tic. A.ş

Address : Barış Mah. 1804/2 Sok.No:24 Gebze/KOCAELİ /TÜRKİYE

Contact Person : Evren KUMCU

Email: info@mebmetal.com.tr

Telephone no : +90 262 641 77 10 - +90 262 646 30 55 **Fax no :** +90 262 646 53 45

Emergency telephone number : +90 262 641 77 10

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture :

Classification according to Regulation (EC) No 1272/2008 (CLP):

Aquatic Acute 1;H400

Aquatic Chronic 1;H410

GHS09



Hazard Statements (H) :

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long-lasting effects.

Precautionary Statements (P):

P260 : Do not breathe dusts or fumes.

P273 : Avoid release to the environment.

P391 : Collect spillage.

P501 : Dispose of contents/container in accordance with local regulations.

Potential Hazards :

Human Health : Dusts are irritating to eyes, skin and respiratory system; causes nausea, headache and shortness of breath.

Physical hazards : Not classified.

Environment : Very toxic to aquatic life with long-lasting effects.

Chronic Hazards : Not available.

Label Elements :

Label In Accordance With (EC) No. 1272/2008

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GHS Signal Word : Warning.

GHS Signal code : GHS09.

Hazard Determining Components : Lead oxide.

See hazard pictograms, H and P Statements above.

Other Hazards : None.

This product does not contain any PBT or vPvB substances.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Mixture: consisting of the following components:

Components	Cons. % (w/w)	EC no	CAS no	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc oxide	90	215-222-5	1314-13-2	Aquatic Acute 1;H400 Aquatic Chronic 1;H410

4. FIRST AID MEASURES

Description of first aid measures :

General : Remove all contaminated clothes. Do not breathe. Get medical attention.

Inhalation: Remove to fresh air. Get medical attention if any discomfort continues.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention.

Skin contact: Wash skin thoroughly with soap and water.

Ingestion: Do not induce vomiting. Rinse mouth with plenty of water. Drink a few glasses of water or milk. Get medical attention.

Most important symptoms and effects, both acute and delayed :

Inhalation : Inhalation of dusts can cause irritative action on mucous membranes. Symptoms include, coughing, shortness of breath, headache or nausea.

Ingestion : Causes irritation of the mouth, gullet and gastrointestinal tract if swallowed. Symptoms include burning, choking, nausea, vomiting and pain.

Skin contact : May cause skin irritation. Symptoms include itching, redness, inflammation and/or swelling of exposed tissues.

Eye contact : May cause eye irritation. Symptoms include eye burns, watering eyes.

Indication of any immediate medical attention and special treatment needed : Eyes, skin or respiratory system irritation.

Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Specific Hazards : Keep away from oxidizing agents. Contact with combustible and organic materials may cause fire. Mixtures of fine dusts with air can be explosive.

Extinguishing Media: Water, dry chemicals, carbondioxide or foam.

Unsuitable Extinguishing Media : Water jet.

Unusual Fire and Explosion Hazards: Carbon, zinc and various metaloxides.

Advice for fire-fighters : Wear self-contained respiratory protective device. Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,protective equipment and emergency procedures: Wear protective clothing as described in section 8 of this safety data sheet. Ensure adequate air ventilation. Avoid formation of dusts or mists. Avoid eyes and skin contact. Do not breathe dusts or mists. Use spark-proof tools and explosion proof equipment.

Methods and material for containment and cleaning up : Pick up with vacuum or sweep up and store in an appropriate waste disposal container. Prevent entry into sewers, basements or confined areas.

Environmental precautions : Keep spills away from drinking water supplies. Prevent entry into sewers, basements or confined areas. Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

7.HANDLING AND STORAGE

Precautions for safe Handling: Provide adequate ventilation. Protect from moisture, water. Prevent formation of dusts. Avoid eyes and skin contact. Observe good chemical hygiene practices. Do not eat, drink or smoke during use. Provide eyewash stations or safety showers.

Conditions for Safe Storage, including any incompatibilities: Store at moderate temperatures in dry, well ventilated area between 5-35°C away from food and food products. Keep in original container. Keep away from incompatibles such as oxidizing agents,combustible materials,strong acids and alkalis. Keep away from heat sources and open flames.

Specific end use(s) : The identified uses for this product are detailed in Section 1.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits :

Zinc oxide TWA : 5 mg/m³ (respirable dust) 15 mg/m³ (total dust)

Exposure controls :

Engineering measures : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dusts below their respective threshold limit value. Avoid breathing dusts

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and mists. The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Do not eat or drink while working. Avoid contact with the eyes and the skin. Provide eyewash stations or safety showers.

Personal Protection :

Eye Protection: Safety glasses or goggles.

Hands Protection : Protective PVC gloves.

Skin and Body Protection: Protective work clothing.

Respiratory Protection : Use suitable NIOSH approved respiratory mask or protective device .

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid.

Colour : White or light yellow.

Odour : None.

pH (100 g/L)(20°C) : : 7-8.

Melting Point : 1975°C (3587 F)

Flash Point : Not applicable.

Auto-Ignition Temperature : Not applicable.

Explosion Limits : Not available.

Specific Gravity : 5.5 g/cm³.

Solubility : 2.9 mg/L.

10. STABILITY AND REACTIVITY DATA

Chemical Stability : Stable under prescribed storage and normal use conditions.

Reactivity : Keep away from incompatible materials.

Possibility of hazardous reactions : No information required.

Conditions to avoid : Excessive heat and open flames, humidity, water. Formation of dust.

Incompatibility :

Materials to avoid : Avoid strong acids, alkalis and strong oxidizers.

Hazardous Decomposition or By Products: On heating/burning: release of carbon, zinc and various metal oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Not toxic.

Inhalation : Inhalation of dusts can cause irritative action on mucous membranes . Symptoms include coughing, shortness of breath, headache or nausea.

Ingestion : Causes irritation of the mouth, gullet and gastrointestinal tract if swallowed. Symptoms include burning, choking, nausea, vomiting and pain.

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Eye contact : May cause eye irritation. Symptoms include eye burns, watering eyes.

Skin contact : May cause skin irritation. Symptoms include itching, redness, inflammation and/or swelling of exposed tissues.

Sensitization : No sensitizing effects known.

Chronic Toxicity : Not available.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) : Not available.

Specific target organ toxicity – single exposure :

STOT – Single exposure : None.

Specific target organ toxicity – repeated exposure :

STOT – Repeated exposure : None.

Aspiration Toxicity : None.

LD₅₀ oral rat (Zinc) : > 5000 mg/kg

ATE_{mix} oral : >5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity : Very toxic to aquatic life with long-lasting effects.

Always comply with federal, state, and local environments.

Zinc oxide LC₅₀ (Daphnia magna) : 0.098 mg/l/ 48 h

LC₅₀ (Zinc powder) : 0.41 mg/L /96 h (Fish)

EC₅₀ (Zinc powder) : 0.139 mg/L /48 h (Daphnia magna)

Toxicity : No data available.

Persistence and degradability : Low biodegradability.

Bioaccumulative potential : Bioaccumulation not expected.

Mobility in soil : No data available.

Results of PBT and vPvB assessment : This product does not contain any PBT or vPvB substances.

Other adverse effects : No information required.

13. DISPOSAL CONSIDERATIONS

General information : This product is hazardous waste.

Waste treatment methods : Dispose according to federal, state and local official regulations.

Do not discharge into drains or rivers.

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14. TRANSPORT INFORMATION

General Classification (ADR/RID, IMDG, IATA/ICAO) :

UN No : UN 3077

Proper Shipping Name : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Class : 9

Danger code : 90

Packing group : III

EmS Code : F-A,S-F

Tunnel code : E

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

Environmental Hazards :

Environmentally hazardous substance/Marine pollutant : Yes (Zincoxide).

15. REGULATORY INFORMATION

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

EU Legislation :

Regulation (EC) No 2015/830 of the European Parliament and of the Council of 28 March 2015 on Classification, Labelling and Packaging of substances and mixtures (CLP) and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Approved Code of Practice :

Safety Data Sheets for Substances and Preparations.

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes :

Workplace Exposure Limits EH40.

Chemical Safety Assessment :

A chemical safety assessment has not been carried out.

The regulatory information is not intended to be comprehensive. Other local regulations may apply to this material.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) has been fully issued according to the CLP and REACH regulations based on the information received from the product owner.

Safety Data Sheet Issued By : Chemical Engineer Birgul Ankaralı (info@gbfhazirlama.com)

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Contact Person : Evren KUMCU : info@mebmetal.com.tr

Hazard Statements in Article 3 :

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long-lasting effects.

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