

MATERIAL SAFETY DATA SHEET

MANUFACTURER: ORGANIC FERTILIZER MANUFACTURERS BOTSWANA



ZINC SULPHATE		
SOP No: ZN10012018	REVISION No: 001	EFFECTIVE DATE 10/1/2018

Contact Details

Supplier's Name:	Organic Fertilizer Manufacturers Botswana
Address:	P.O. Box AD702 ADD Kgale Gaborone
Emergency Telephone:	(267) 76065264
Information Telephone:	(267) 76065264
Date prepared:	10/1/2018

SECTION: 1 CHEMICAL IDENTIFICATION

Product:	Zinc Sulphate
Active Ingredients:	Zinc Sulphate Monohydrate
Chemical Class:	Fertilizer

SECTION: 2 INGREDIENTS / IDENTITY INFORMATION

Hazardous Ingredients:	Hazardous in case of contact with skin and eyes, inhalation and/ or ingestion
Components:	ZnSO ₄

SECTION: 3 PHYSICAL / CHEMICAL CHARACTERISTICS

Physical State:	Dry Granules
Melting Point:	Decomposes above 500°C
Vapour Pressure:	N/A
Specific Gravity:	N/A
Percent Volatile:	N/A
Evaporation Rate:	N/A
Solubility in Water:	50% by weight
Appearance and Odour:	White granules, no odour

N/A = Not Applicable

N/D = Not Determined

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SECTION: 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point:	None
Flammable Limits:	Product burns only with great difficulty but will decompose in the heat of a fire.
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Water
Special Fire Fighting Procedures:	Use extinguishing media appropriate for surrounding fire, use self-contained breathing units.
Hazardous Combustion Products:	Thermal decomposition may include toxic and hazardous oxides of zinc and sulphur

SECTION: 5 REACTIVITY DATA

Stability:	Stable under normal conditions
Conditions of Reactivity:	Avoid contact with strong oxidizers and / or excessive heat. Do not allow spilled material to contaminate water sources.
Incompatibility:	Contact with strong oxidizers may result in a fire and explosion hazard.

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SECTION: 6 HEALTH HAZARD DATA

Routes of exposure:	Eye, skin, inhalation, ingestion
Eyes:	May cause irritation, possibly severe. Additional effects may include tearing and / or blurred vision.
Skin:	May cause irritation, possibly severe
Inhalation:	May cause irritation of nose, throat and respiratory tract, possibly severe. Significant exposures may result in difficulty breathing, low blood pressure, dizziness, bluish skin colour and lung congestion.
Ingestion:	May irritate or cause burns to digestive tract. Significant exposures may cause effects such as fever, nausea, vomiting, diarrhoea, stomach pain, blood in the stool, inability to urinate, low blood pressure, kidney damage, liver damage and convulsions
Health hazards:	Continued and prolonged over exposure may result in digestive disorders, kidney and / or Liver damage
Carcinogenicity	N/A
Emergency and first Aid:	Eyes: Flush with cool water for 15 minutes. Obtain medical attention immediately. Skin: Skin may become dry from dust. Wash thoroughly with soap after handling. Obtain medical assistance for irritation, burns or any other symptom. Inhalation: May cause irritation to nasal passages, trachea and respiratory system. Move to fresh air area. Ingestion: Dilute the product immediately with large amounts of water or milk. Do not induce vomiting. If ingested, seek physician as soon as possible.
NOTE TO PHYSICIAN:	The decision as to whether the severity of poisoning requires administration of any antidote and actual dose required should be made by qualified medical personnel. The antidote for poisoning from zinc salts is calcium disodium edetate (oral or IV) Dreisbach, <u>Handbook of Poisoning</u> , 12 th Edition.

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SECTION: 7 PRECAUTIONS FOR SAFE HANDLING AND USE

If material is released or spilled:	Spills may be easily cleaned up by sweeping up as much solid as possible. Do not allow product and/or runoff to enter sewers or waterways.
Waste and Disposal Method:	Dispose of in accordance with local, provincial and national regulations.
Precautions to be taken in Handling and Storing:	Store in cool, dry place away from Children, domestic animals, food and feed products.
Other precautions:	Keep away from combustible material.

SECTION: 8 CONTROL MEASURES

Respiratory Protection:	Use dust masks
Ventilation:	Use of local exhaust is recommended at product transfer points and where dusty conditions exist.
Protective Gloves:	Protective gloves (Impervious)
Eye Protection:	Protective eye-ware necessary.
Other Protective Clothing Or Equipment:	Full length chemical resistant overalls / apron, dust mask
Work/Hygienic Practices:	Normal

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SECTION: 9 ECOLOGICAL INFORMATION

Users should ensure that they comply with local, provincial and national environment legislation. Environmental affects: Toxic to aquatic organisms in low concentrations
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