

# Material Safety Data Sheet

Date: June 2018

Version:2018-06

### 1. Identification of the substance / mixture and of the supplier

**Product Name:** Zinc Nitrate

**Identification:** Zinc Nitrate diluted

**Recommended use:** Fertilizer, only use as directed

**Details of Supplier:**


Hygrotech Properties (Pty) Ltd, 1 Gerard Braak street, Pyramid, Pretoria, 0120

**Emergency Telephone numbers:**

Griffon Poison Information Centre: 082 446 8946

Hygrotech Head Office: 012 454 8000 (o/h)

### 2. Hazard identification

Physical/chemical hazards	Contact with combustible material may cause fire
Label Elements	
Signal Word	Oxidizer
Hazardous statement	May cause fire or explosion

### 3. Composition/information on ingredients

Substance/mixture:

Chemical identity	CAS no,	%	Symbol	R-phrases
Zinc Nitrate in solution	10196-18-6	40-50	O, Xn	R8, R22. R38. R41, R43

4. First Aid measures	
Inhalation	Allow the patient to rest in a well-ventilated area. If necessary use artificial respiration to support vital functions Remove and isolate contaminated clothing and shoes. Make sure medical personnel are aware of the substance involved, and take precaution to protect them.
Ingestion	If this product is swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTRE FOR MOST CURRENT INFORMATION. Do not induce vomiting.
Skin contact	Decontaminate the affected area with running water. Minimum recommended flushing time is 15 Minutes, especially if an adverse skin reaction occurs.
Eye contact	IMMEDIATELY flush with running water for at least 15 minutes, keep eyelids open. COLD water must be used
Additional information	Take a copy of the label and SDS to Physician or health professional with victim

5. Fire-fighting measures	
Suitable extinguishing media	Water spray, carbon dioxide, foam, dry chemicals, halon and any other ABS Class
Hazards arising from the chemical	When involved in a fire and exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapours and toxic gasses (Nitrogen Oxides and Zinc Oxide fumes)
Special protective equipment	Fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. If possible prevent runoff water from entering storm drain bodies of water or other environmentally sensitive areas

6. Accidental release measures	
Personal precaution	In case of a release, clear the affected area and protect people. Appropriately trained personnel, in proper personal protective equipment, using pre-planned procedures, should respond to uncontrolled releases
Environmental precaution	Prevent contamination of environmentally sensitive areas
Containment and clean-up	For small spills: gloves, safety glasses and appropriate body protection For large spills: Minimum personal protective equipment should be level C: triple gloves, chemical resistant suit and air purifying respirator with a high-efficiency particulate filter. If necessary dike the spill to prevent release from contaminating environmentally sensitive areas. Neutralize the residue with a diluted solution of Sodium Carbonate

7. Handling and storage	
Safe handling	Avoid getting the product on yourself. Wash thoroughly after handling this material. Do not eat, drink, smoke or apply cosmetics while handling this product. Use in well ventilated area
Safe storage	Open container slowly on a stable surface. Re-lease any pressure build-up from the container before totally opening the lid. All containers containing this material must be clearly labelled. Empty containers should be handled with care. Store containers in a cool dry location, away from direct sunlight and sources of intense heat, or where freezing is possible. Store away from incompatible materials (see section 10) Material should be stored in secondary containers or dike area. Keep containers tightly closed when not in use. Inspect all incoming containers before storage to ensure that containers are properly labelled and are not damaged

8. Exposure controls/personal protection	
Occupational exposure limits	-
Engineering controls	Use with adequate ventilation to prevent inhalation of spray or mist. All operations should be directed at minimising the generation of aerosols, sprays or mist. Eyewash stations and safety showers should be near areas where this product is used or sprayed
Individual protection measures	Hand: wear neoprene gloves for routine industrial use Eye: splash goggles Skin: Use body protection appropriate for the task at hand

9. Physical and chemical properties	
Appearance	Clear liquid
Odour	Slight acidic odour
pH	2.5-3.5
Relative density	1.25
Solubility	Soluble in water
Octanol/water partition coefficient:	This product is much more soluble in water


10. Stability and reactivity	
Reactivity	
Chemical stability	This product is stable
Conditions to avoid	Extreme temperatures and incompatible materials
Incompatible materials	Oxidising agents, metal powders
Hazardous decomposition products	Nitrogen oxides and Zinc Oxide fumes

11. Toxicology information	
Skin irritation	Very hazardous in case of skin contact
Sensitization	Hazardous in case of skin contact
Acute toxicity	Oral DL50 (rats) = 1.17g/kg (zinc nitrate)

12. Ecological information
Eco toxicity : Not available

13. Disposal information	
Disposal methods	Rinse empty container 3 times with a volume of water equal to one tenth of the volume of the container and or to the spray tank
Disposal of packaging	Destroy the container by perforation and flattening, before disposal

14. Transport information	
UN No.	UN1514
UN proper shipping name	Zinc Nitrate
Transport hazardous class	5.1
Packing group	II
Environmental hazard	No
Trem card no.	

15. Regulatory information	
Hazard symbol	
Classification:	Oxidizer
Risk phrase	R8: Contact with combustible material may cause fire R22: Harmful if swallowed R38: Irritating to skin R41: Risk of serious damage to eyes R43: May cause sensitization by skin contact
Safety phrase	S2: Keep out of reach of children S7: Keep container tightly closed S24: Avoid contact with skin S25: Avoid contact with eyes S29: Do not empty into drains S46: If swallowed, seek medical advice immediately and show the container or label

16. Other information	
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Prepared by	User2005

**Notice to the reader**

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