

Safety Data Sheet

According to the International Organization for Standardization, ISO 11014:2009

www.kimleigh.com

TEL: | +27 18 293 1028: | +27 18 285 1014



Reg. No. 1974/000531/07

PO Box 1097 | Potchefstroom | 2520 | South Africa

11 Jasper vd Westhuizen Str | Potchindustria | Potchefstroom | 2531

Trade name: Zinc Metalin 700

Product range:



SECTION 1: Chemical Product and Company Identification

1.1 Product identifier:

Product / Mixture name

: Zinc Metalin 700

Chemical Family

: Agricultural liquid micronutrient

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Zinc micronutrient for horticultural and agricultural use.

1.3 Details of the supplier of the safety data sheet:

Kimleigh Chemicals SA (Pty) Ltd

11 Jasper van der Westhuizen Street, Potchindustria, Potchefstroom, North West Province, 2531, South Africa

Tel no: +27 (18) 293-1028

Fax no: +27 (18) 294-4079

Web : www.kimleigh.com



E-mail : sheq@kimleigh.co.za

1.4 Emergency telephone number:

Kimleigh Chemicals SA (Pty) Ltd: Tel: +27 (18) 293-1028

SECTION 2: Hazards Identification

2.1. Classification of the substance:

Classification according to the Global Harmonized System (GHS):	Code:	Pictogram:	Signal word:
Health hazards: May cause an allergic skin reaction. May cause respiratory irritation.	H317 H335	GHS07 	Warning
Environmental hazards: Very toxic to aquatic life with long lasting effect.	H410	GHS09 	

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Precautionary statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use outdoors/in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air.
P333+P313	IF SKIN IRRITATION or RASH occurs: Get medical attention.
P312	Call POISON CENTER or doctor if you feel unwell.
P363	Wash contaminated clothing before re-use.
P391	Collect spillage. Hazardous to the aquatic environment.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

2.2 Potential health effects:

Routes of entry: Eye contact, inhalation, ingestion, absorbed through skin.

Eyes: May cause eye irritation and local inflammation.

Skin: May cause mild skin irritation.

Inhalation: May cause mild irritation to respiratory tract.

Ingestion: It may cause mild irritation and/or a burning sensation in the mouth, pharynx, esophagus, and gastrointestinal tract.

SECTION 3: Composition/Information on Ingredients

3.1 Mixture:

Mixture name:	Zinc Metalin 700
Appearance:	White coloured, suspension concentrate
Ingredients:	Zinc (Zn): 700 g/l m/v (409 g/kg m/m)

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information

Consult a physician. Show this safety data sheet to the doctor in attendance.

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Following inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Following skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

Following eye contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Following ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Rinse mouth with water. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

SECTION 5: Firefighting Measures

5.1 Products of combustion: Oxides of zinc and carbon.

Explosion hazards in presence of various substances:

Risk of explosion of the product in the presence of static discharge: NO

Risk of explosion of the product in presence of mechanical impact: NO

Fire hazards in presence of various substances: Not applicable.

5.2 Firefighting media and instructions:

Small fire: Use dry chemicals, CO₂, alcohol-resistant foam or water spray.

Large fire: Water spray or fog, alcohol-resistant foam. Use water spray to cool containers.

Protective clothing (Fire): Wear NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Special remarks on fire hazards: Prevent fire-fighting water from entering surface water groundwater.

Special remarks on explosion hazards: Not available.

SECTION 6: Accidental Release Measures

6.1 Personal Protection: Respiratory: Respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

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Product range:



Hands: Nitrile rubber gloves

Eyes: Splash goggles

Body: Full suit

Feet: Safety boots

6.2 Small spill and leak:

Use appropriate tools and adsorptive material to contain and adsorb the spilled solution and dispose of in a convenient waste disposal container.

6.3 Large spill and leak: Use appropriate tools and personal protective equipment. Stop leak without risk. Do not touch spilled material. Prevent entry into sewers, basements, or confined areas; dyke if needed. Absorb with liquid binding material such as sand, universal binders. Call for assistance on disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Protective measures

Advice on safe handling

Handle with care in accordance with good industrial hygiene and safety practices. Do not swallow or inhale spray, mist or vapours. Avoid contact with eyes and skin and any form of ingestion. Wear suitable protective clothing such as overalls, boots, rubber gloves, goggles, nose and mouth protection and wash contaminated clothing daily. Wash thoroughly with soap and water after use or accidental skin contact. Do not eat, drink or smoke during use. Avoid contamination of food, foodstuffs, eating utensils and drinking water. Do not discharge residues or any of the product into rivers, dams and canals.

Advice on safe storage

Store in a cool, dry and well-ventilated place, away from food, foodstuffs, and incompatible substances. Close container tightly after opening. Store under lock and key and keep out of reach of children, uninformed persons and animals. Minimise mist generation. Access to water and eye wash facility should be available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Engineering controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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8.2 Personal Protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the substance handled.

Respiratory: Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands: Nitrile rubber gloves.

Eyes: Splash goggles.

Body: Full acid resistant suit.

Feet: Safety boots.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, and using the lavatory and at the end of the day. Follow good industrial hygiene practice. Remove and wash contaminated clothing.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	Suspension
Form:	Suspension concentrate
Colour:	White
Odour:	Odourless

9.2 Other information:

pH (50 g/ℓ H₂O sol.):	7.3 – 7.5
Freezing point:	< 0°C
Boiling point:	> 100°C
Flash point:	Not available
Vapour density:	Not available
Flammability/explosive limits:	Not available
Relative density (20°C):	± 1.71 kg/ℓ (water = 1)
Solubility in water (20°C):	Product is water-miscible

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SECTION 10: Stability and Reactivity

10.1 Reactivity and stability

The product is stable under recommended conditions of storage and use.

10.2 Hazardous decomposition products

Oxides of carbon and zinc.

10.3 Incompatibility with various substances

Strong oxidising agents, bases, and acids.

10.4 Conditions of instability

High temperatures. Store away from strong oxidising agents, strong bases, and acids.

10.5 Hazardous polymerization

Will not occur.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects:

	Effect dose / concentration	Value(s)	Species
Acute oral toxicity (Calculated)	LD50	6,300 mg/kg	Rat

11.2 Other information:

Chronic effects on humans:

Carcinogenic effects: Not suspected.

Mutagenic effects: Not available.

Teratogenic effects: Not suspected.

Acute effects on humans:

Eyes: Mild eye irritant.

Skin: Mild skin irritant. Skin inflammation is characterised by itching, scaling, reddening, or occasional blistering.

Inhalation: May be harmful if inhaled. Inhalation may cause mild irritation to respiratory tract. Symptoms can include irritation of nasal passages, sore throat, shortness of breath, and coughing.

Ingestion: Harmful if swallowed. It may cause mild irritation and/or a burning sensation in the mouth, pharynx, oesophagus, and gastrointestinal tract.

Toxicity to reproductive system:

Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical

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Substances (RTECS).

SECTION 12: Ecological Information

12.1 Ecotoxicity:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Phytotoxicity:

Zinc is an essential micronutrient for healthy plant growth but can be harmful in large quantities to Zinc sensitive plants.

12.3 Mobility:



Do not allow to enter water or soil. Product is water-miscible.

SECTION 13: Disposal Considerations

13.1 Waste disposal:

Consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal site (TDS) to assure compliance with all current, local, national, and governmental regulations.

SECTION 14: Transport Information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Marine transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	3082	3082	3082	3082
14.2 UN Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Zinc Metalin 700)	Environmentally hazardous substance, liquid, n.o.s. (Zinc Metalin 700)	Environmentally hazardous substance, liquid, n.o.s. (Zinc Metalin 700)	Environmentally hazardous substance, liquid, n.o.s. (Zinc Metalin 700)
14.3 Transport hazard class(es)	Class 9	Class 9	Class 9	Class 9
Hazard label(s)	GHS07  GHS09 			

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Product range: **FERTION** Growing with

14.4 Packing group	III	III	III	III
14.5 Transport label				

SECTION 15: Regulatory Information
















































15.1 Republic of South Africa Regulations:

National Water Act 36 of 1998. Occupational Health and Safety Act, 1993. Environmental Conservation Act 73 of 1989. Hazardous Substances Act, 1973. Provincial Ordinances and Local By-laws.

SECTION 16: Other Information

16.1 Hazardous material identification system

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HAZARD INDEX	PERSONAL PROTECTION INDEX												
4 Severe Hazard	A 												
3 Serious Hazard	B 												
2 Moderate Hazard	C 												
1 Slight Hazard	D 												
0 Minimal Hazard	E 												
* An asterisk or other designation corresponds to additional information on a data sheet or separate chronic effects notification													
HEALTH 0 2	F 												
FLAMMABILITY 0	G 												
PHYSICAL HAZARD 0	H 												
Personal Protection F	I 												
	J 												
	K 												
	X Consult your supervisor or S.O.P. for "Special" handling directions												
	<table border="0" style="width: 100%; font-size: x-small;"> <tr> <td>A  Safety Glasses</td> <td>n  Splash Goggles</td> <td>o  Face Shield & Eye Protection</td> <td>p  Gloves</td> <td>q  Boots</td> <td>r  Synthetic Apron</td> </tr> <tr> <td>S  Full Face</td> <td>t  Dust Respirator</td> <td>u  Vapor Respirator</td> <td>w  Dust & Vapor Respirator</td> <td>y  Full Face Respirator</td> <td>z  Airline Hood or Mask</td> </tr> </table>	A  Safety Glasses	n  Splash Goggles	o  Face Shield & Eye Protection	p  Gloves	q  Boots	r  Synthetic Apron	S  Full Face	t  Dust Respirator	u  Vapor Respirator	w  Dust & Vapor Respirator	y  Full Face Respirator	z  Airline Hood or Mask
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Product range:  *Growing with*
FERTION

16.2 Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with the International Organization for Standardization.

16.3 Disclaimer:

KIMLEIGH CHEMICALS SA (Pty) Ltd provides the information contained herein in good faith but does not assume any liability whatsoever for its accuracy or completeness. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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