

# Safety Data Sheet

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

[www.kimleigh.com](http://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:** Iron Metalin 60

**Product range:**



## SECTION 1: Chemical Product and Company Identification

### 1.1 Product identifier:

**Product name** : Iron Metalin 60  
**Chemical family** : Agricultural granular micronutrient

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

Iron 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](http://www.kimleigh.com)



E-mail : [sheq@kimleigh.co.za](mailto: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:
<b>Health hazards:</b> N/A. <b>Environmental hazards:</b> Very toxic to aquatic life with long lasting effect.	H410	GHS07  GHS09 	Warning

### Precautionary statements:

P273

Avoid release to the environment.

P391

Collect spillage. Hazardous to the aquatic environment.

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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 mild eye irritation.

**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:** Iron Metalin 60

**Appearance:** Dark reddish-brown powder

**Ingredients:** Iron (Fe) 60 g/kg

## 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.

#### 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.

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## 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 iron and nitrogen.

### 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, CO<sub>2</sub>, 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.

Hands: Nitrile rubber gloves

Eyes: Splash goggles

Body: Full suit

Feet: Safety boots

**6.2 Small spill and leak:**

Use appropriate tools and personal protective equipment. Pick up spillage. Dispose of in a waste disposal container. Do not allow to enter sewerage system.

**6.3 Large spill and leak:**

Use appropriate tools and personal protective equipment. Contain material. Take up spillage limiting generation of dust. Dispose of in a waste disposal container. Do not allow to enter sewerage system.

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## 6.4 Environmental protection:

Do not allow to enter sewerage system.

## 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. Handle in a well-ventilated area in an enclosed, controlled process. Avoid creating dust. Ensure adequate ventilation if dusts are created. Do not breathe dust or fumes. Wash thoroughly before eating or smoking. See Section 8 for information on personal protection equipment.

##### Advice on safe storage

Store in a cool, dry area. Store material tightly sealed in properly labeled containers. Protect from moisture. Store away from oxidizers. See section 10 for more information on incompatible materials.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters.

#### Engineering controls:

Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

#### 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 suit.

Feet: Safety boots.

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**Product range:** FERTION

## 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:*

<b>Physical state:</b>	Powder
<b>Form:</b>	Fine powder
<b>Colour:</b>	Dark reddish-brown powder
<b>Odour:</b>	Odourless

### 9.2 Other information:

<b>pH (50 g/l H<sub>2</sub>O sol.):</b>	7.8
<b>Freezing point:</b>	N/A
<b>Boiling point:</b>	N/A
<b>Flash point:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Flammability/explosive limits:</b>	Not available
<b>Relative density (20°C):</b>	± 0.56 kg/l (water = 1)
<b>Solubility in water (20°C):</b>	Soluble in water
<b>Ortho-ortho value:</b>	3%

## 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 iron and nitrogen.

### 10.3 Incompatibility with various substances

Strong oxidising agents, alkalis, and acids.

### 10.4 Conditions of instability

High temperatures. Store away from strong oxidising agents, metals, and acids. Avoid humid/wet conditions.

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## 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	2,000 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:** Inhalation may cause mild irritation to respiratory tract.

**Ingestion:** 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 Substances (RTECS).

## SECTION 12: Ecological Information

### 12.1 Ecotoxicity:

Harmful to aquatic organisms.

### 12.2 Phytotoxicity:

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

### 12.3 Mobility:

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

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## 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 (TSD) to assure compliance with all current, local, national and government 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.	Not listed.	Not listed.	Not listed.	Not listed.
14.2 UN Proper shipping name	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.
14.3 Transport hazard class(es)	Class 9	Class 9	Class 9	Class 9
Hazard label(s)	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>GHS07</p>  </div> <div style="text-align: center;"> <p>GHS09</p>  </div> </div>			
14.4 Packing group	III	III	III	III
14.5 Transport label				



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Product range: **FERTION** Growing with

## SECTION 15: Regulatory Information








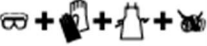

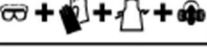
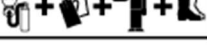












### 15.1 Republic of South Africa Regulations:

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	
<b>4</b>	<b>Severe Hazard</b>	<b>A</b>	
<b>3</b>	<b>Serious Hazard</b>	<b>B</b>	
<b>2</b>	<b>Moderate Hazard</b>	<b>C</b>	
<b>1</b>	<b>Slight Hazard</b>	<b>D</b>	
<b>0</b>	<b>Minimal Hazard</b>	<b>E</b>	
* An asterisk or other designation corresponds to additional information on a data sheet or separate chronic effects notification		<b>F</b>	
<b>HEALTH</b>		<b>G</b>	
0	1	<b>H</b>	
<b>FLAMMABILITY</b>		<b>I</b>	
0	0	<b>J</b>	
<b>PHYSICAL HAZARD</b>		<b>K</b>	
0	0	<b>X</b>	Consult your supervisor or S.O.P. for "Special" handling directions
<b>Personal Protection</b>		<b>A</b>	
F		<b>n</b>	
		<b>o</b>	
		<b>p</b>	
		<b>q</b>	
		<b>r</b>	
		<b>s</b>	
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		<b>w</b>	
		<b>y</b>	
		<b>z</b>	

### 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.