

# **SAFETY DATA SHEET (SDS)**

SDS Nr.	085000
Issue Date	11/2009
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## **SECTION 1.**

### **COMPANY IDENTIFICATION & PRODUCT INFORMATION**

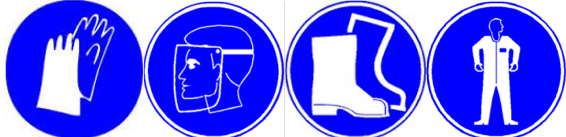
COMPANY: IN LINE TRADING 112 Pty Ltd      Tel: +27 (11) 392 4072  
Postnet Suite #114      Fax: +27 (11) 392 4363  
Private Bag X27  
KEMPTON PARK  
Gauteng Province  
South Africa

EMERGENCY PHONE NUMBER	+27 (82) 468 3878
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NAME USED ON LABEL	OR Mikro, Orange River Mikro
SYNONYMS	Powder nutrient for agricultural use
PRODUT USE:	Fertilization/Fertigation/Foliar Feeding
UN Nr.	N/A

## **SECTION 2.**

### **HAZARDOUS IDENTIFICATION**

GHS (Pictogram)	Protective Clothing
	

**Signal Word**

**WARNING**

HAZARD CLASS	HAZARD CATEGORY
Acute Toxicity, Oral Eye Irritation	Category 5 Category 2B

<b>GHS Hazard Statement</b>	
H320 – Causes Eye Irritation. H303 – May be harmful if swallowed	
<b>GHS Precautionary Statement</b>	
P264 – Wash hands thoroughly after handling P280 – Wear protective gloves/clothing. P102 – Keep out of reach of children. P101 – If medical advice is needed, have product container or label at hand.	

INHALATION EXPOSURE	May Causes irritation to mucous membranes
INGESTION	Mildly corrosive to gastrointestinal tract at levels greater than 5mg/m3.
SKIN CONTACT	Does not cause irritation to intact skin. Wash with running water
EYE CONTACT	Non-irritating to eyes. Wash with running water.
CHRONIC (PROLONGED) EXPOSURE	No information available
AGRIVATING CONDITIONS WITH COMBINATIONS	No information available

**SECTION 3.**  
**COMPOSITION & INFORMATION ON INGREDIENTS**

<b>Identity</b>	<b>CAS-No.</b>	<b>% w/w</b>	<b>Symbol</b>
Non Disclosed Ingredients		66 - 74	Xn

Ingredients not identified are confidential or non hazardous. Values on MSDS are not product specifications

**SECTION 4.**  
**FIRST AID MEASURES**

IF IN HALLED	Remove victim to fresh air.
IF SWALLOWED	Do not induce vomiting, unless under direction of a physician or a poison control center expert. If spontaneous vomiting occurs, have the victim lean forward with the head down to avoid breathing in of vomit, rinse mouth and administer water.
IF ON SKIN	If irritation rinse. Seek medical advice if required.
IF IN EYES	Immediately flush eyes with running water

	for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists repeat rinse.
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**MEDICAL ADVICE:** Symptomatic treatment and supportive therapy as indicated above

**SECTION 5.**  
**FIRE FIGHTING MEASURES**

AUTO IGNITION TEMPERATURE (°C)	>480
FLASH POINT (°C)	No Flash

EXSTINGUISHING MEDIA	For small fires, use foam, carbon dioxide or dry powder extinguishing. For large fires use foam or water-fog; avoid using water jet. Contain run-off with barriers, e.g. earth.
FIRE & EXPLOSION HAZARDS	The product is very difficult to combust, but can be burned. Keep fire exposed containers cool by spraying with water. Container could explode when heated.
PROTECTIVE EQUIPMENT	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus. Fire might produce irritating or poisonous vapors, mists or other combustion products.

**SECTION 6.**  
**ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS	Ventilate area of spill or leak. Ensure suitable personal protection during removal of spills. Wear eye protection, chemically resistant gloves, boots and coveralls.
CLEANING METHODS	Absorb spillages onto sand, earth or any suitable absorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washing must be prevented from entering surface water drains. Seal drums and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill remediation plan.
DEACTIVATING CHEMICALS	None Known
ADDITIONAL INFORMATION	Spillages or uncontrolled discharges into water sources must be alerted to the appropriate regulatory body.

**SECTION 7.**  
**HANDLING AND STORAGE**

SAFE HANDLING	Practice good industrial housekeeping practices
STORAGE REQUIREMENTS	Store in original containers with lid closed. Keep in cool and dry area. Protect the containers from physical damage.
STORAGE TEMPERATURE	Do not expose sealed containers to temperatures exceeding 37°C

**SECTION 8.**  
**EXPOSURE CONTROL/PERSONAL PROTECTION**

VENTILATION CONTROL	Dilution ventilation is a satisfactory health hazard control. Where discomfort is caused to workers, a local exhaust system should be installed. Special Precautions: Avoid breathing vapors or aerosols for prolonged periods.
EYE PROTECTION	Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or face shields. Maintain eye wash fountain and quick drench facilities in work areas
SKIN PROTECTION	Gloves and protective clothing made from Viton or PVC should be used. Verify impermeability under normal usage conditions.

**SECTION 9.**  
**PHYSICAL & CHEMICAL PROPERTIES**

FORM	Granular
COLOUR	White
ODOUR	Odourless
BOILING POINT (°C)	Not Applicable
MELTING POINT (°C)	171°C
VAPOR PRESSURE (mmHg)	Not Available
SPECIFIC GRAVITY (g/cm <sup>3</sup> )	Not Applicable
SOLUBILITY	Soluble in water
pH-Value	Slight Acidic
FLASH POINT (°C)	No Flash
EXPLOSIVE PROPERTIES	Non-Explosive

**SECTION 10.**  
**STABILITY & REACTIVITY**

STABILITY	Stable under normal storage and usage conditions
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INCOMPATIBILITY	Strong Oxidizing agents. Can be made to burn under fire conditions.
HAZARDOUS POLYMERISATION	Will not occur
HAZARDOUS DECOMPOSITION	Carbon Dioxide, Carbon Monoxide, and possibly irritating gases may form
CONDITIONS TO AVOID	Heat, flames, ignition sources and incompatibles
THERMAL DECOMPOSITION	Toxic fumes may be released when decomposed by heating.

**SECTION 11.**  
**TOXICOLOGICAL INFORMATION**

ORAL LD50 (Rat)	➤ 3500mg/Kg
DERMAL LD50 (Rabbit)	➤ 2000mg/Kg
INHALATION LD50 (Rat)	None Available (>2mg/l)
OTHER EFFECTS OF OVEREXPOSURE	CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposure may lead to comma and possible death due to respiratory failure.
CARCINOGENIC EFFECTS	No data available
REPRODUCTIVE TOXICITY	No data available

**SECTION 12.**  
**ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE	No information available
ENVIRONMENTAL TOXICITY	No information available

**SECTION 13.**  
**DISPOSAL CONSIDERATIONS**

Dispose contaminated absorbents, surplus product, etc. in a facility permitted for hazardous waste. Surfactants can cause foaming problems in biological wastewater treatment plants.
Empty containers should be rinsed and disposed of in accordance to local waste disposal legislation. Do not reuse containers

**SECTION 14.**  
**TRANSPORT INFORMATION**

UN number	None
Shipping name	Non-Corrosive Powder
ADR/RID Label	None

**SECTION 15.**  
**REGULATORY INFORMATION**

NATIONAL LEGISLATIONS	National Road Traffic Act, 1996 (Act 93 of 1996)
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	Fire Brigade Service Act, 1987 (Act 99 of 1987) Occupational Health & Safety Act, 1993 (Act 85 of 1993)
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**SECTION 16.**  
**OTHER INFORMATION**

The Information contained in this SDS is offered as a guide to handle specific material and is based on the current scientific and technical knowledge at the date indicated on the present SDS. This information is provided in good faith and believed to be accurate and correct. This information is not intended to be all inclusive and the manner and conditions of use and handling may involve other additional considerations. No warranty of any kind is given or implied by IN LINE TRADING and IN LINE TRADING will not be liable for any damages, injuries or consequential damages which may result from the use of or reliance on any information contained herein. It remains the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. Upon receipt of any changes a new SDS will be made available

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