

The Chemical Company

**MATERIAL SAFETY DATA SHEET**PRODUCT(S): **MASAI**

DATE: 20/09/2006

VERSION: 3

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**1. SUBSTANCE/PREPARATION AND COMPANY NAME**Product Name: **MASAI**

MAPP Number: 13082

Use: Horticultural acaricide/insecticide

Company: BASF plc  
PO Box 4, Earl Road  
Cheadle Hulme  
Cheadle  
Cheshire SK8 6QG

Tel: 0161 485 6222

Fax: 0161 486 0891

Emergency  
Information: 0049 1802 273112 (24 Hours freephone)**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formulation: Wettable powder containing 20 %w/w of tebufenpyrad in water soluble bag.

<u>Hazardous ingredients</u>	<u>EC No.</u>	<u>g/l or % w/w</u>	<u>Symbol</u>	<u>R Phrases</u>
Tebufenpyrad	119168-77-3	20 %	Xn, N	R20/22, R43, R50/53
Sodium alkyl sulfonate preparation	-	≥2.7% - ≤ 3.3%	Xi	R36/37/38
Tensid preparation, alcohol ethoxylate	-	≥2.7% - ≤ 3.3%	Xn, N	R22, R41, R50
Sodium dioctylsulphosuccinate	-	≥1.7% - ≤ 2.3%	Xi	R36/38
Oleylaminethoxylate	26635-93-8	≥2.7% - ≤ 3.3%	Xn, N	R22, R38, R41, R50/53

**3. HAZARDS IDENTIFICATION****HARMFUL DANGEROUS FOR THE ENVIRONMENT**

HARMFUL BY INHALATION (R20).

HARMFUL IF SWALLOWED (R22).

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT (R50/53).

Contains tebufenpyrad. May cause an allergic reaction.

Format based on 91/155/EEC

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**4. FIRST AID MEASURES**

- General advice: If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.
- Eye contact: Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.
- Skin contact: Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.
- Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.
- Inhalation: Keep person calm, remove to fresh air.
- Unconsciousness: If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

**GUIDE TO PHYSICIAN - general advice**

Active ingredient group: Tebufenpyrad – pyrazole.

Symptoms of accidental overexposure: There is no documentation of pathological effects in humans.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

- (i) Treatment should be symptomatic and supportive based on judgement of physician.
- (ii) If the product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For ingestion of small quantities activated charcoal as an absorbent in a dosage of 30 grams in 100ml of water may be considered.
- (iii) Maintenance of ventilation and oxygen therapy to be used as required.
- (iv) If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, then Diazepam is recommended as the drug of choice.

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**5. FIRE FIGHTING MEASURES**

Suitable extinguishing media:	Water spray, foam, dry chemical.
Possible harmful fumes in a fire:	Carbon monoxide, hydrogen chloride, nitrogen oxides and organochloric compounds can be released in the case of a fire. Avoid breathing smoke and fumes.
Protective equipment:	Use self-contained breathing apparatus and protective clothing.
Further information:	Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the DEFRA publication "Code of practice for using plant protection products."

**6. ACCIDENTAL RELEASE MEASURES**

If spilled:	Wear prescribed protective clothing. Clear spillage immediately. Avoid dust formation. Contain spillage, sweep up and collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the DEFRA publication "Code of practice for using plant protection products."
	Wash thoroughly immediately after handling spillages, or at once if contaminated.
Personal protective equipment:	See Section 8.
Environmental precautions:	Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

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**7. HANDLING AND STORAGE**

Handling:	No special measures are necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.
Protection against fire and explosion:	Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge – sources of ignition should be kept well clear.
Storage:	Keep dry and frostproof in a suitable pesticide store. Protect from direct sunlight. Store separately from food, drink and animal feed. Segregate from oxidants. Protect from temperatures above 30°C.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****(i) SAFETY PRECAUTIONS**

Precautions marked \* are a legal requirement

**Operator protection**

\*Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

\*WEAR SUITABLE PROTECTIVE GLOVES when handling the product.

\*However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH ANY CONTAMINATION from skin or eyes immediately.

AVOID ALL CONTACT BY MOUTH.

AVOID ALL CONTACT BY SKIN.

WASH HANDS AND EXPOSED SKIN before meals and after work.

**Environmental protection**

\*Do not contaminate surface waters or ditches with chemical or used container.

\*HIGH RISK TO BEES. Do not apply to crops in flower or to those in which bees are actively foraging, except as directed in hops. Do not apply when flowering weeds are present.

\*This product qualifies for inclusion within the Local Environmental Risk

Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer or broadcast air-assisted sprayer, either a LERAP must be

carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

\*DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits



Broad-  
cast air-  
assisted  
LERAP

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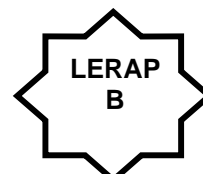
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a narrower buffer zone, or within 1m of the top of any ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing water body. Aim spray away from water.

\*DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers to fall within 18m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5m of the top of a ditch which is dry at the time of application. Aim spray away from water.

**Storage and disposal**

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.

EMPTY CONTAINER COMPLETELY and dispose of safely.

DO NOT STORE ABOVE 40°C

**(ii) PERSONAL PROTECTIVE EQUIPMENT**

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5mm thick and 300mm long have been found to be the most suitable. Gloves made of viton, butyl rubber, neoprene and PVC can also offer good protection. Gloves must protect the whole hand and wrist and should be thoroughly washed after each operation.

The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the DEFRA publication "Code of practice for using plant protection products". Decontaminate all personal protective equipment after use. When this is not possible dispose of as hazardous waste.

**(iii) OCCUPATIONAL EXPOSURE LIMITS (OESs)**

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u>	<u>Short term exposure limit</u>
Not applicable		

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	Powder
Colour:	Beige
Odour:	Faint
Flammability:	Not self igniting
Bulk density:	300 – 400 kg/m <sup>3</sup> (20°C)
Solubility in water:	Dispersible
pH:	9.3 (1%(m) 21°C, as suspension)
Oxidising properties:	Avoid contamination with strong oxidising agents

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**10. STABILITY AND REACTIVITY**

Hazardous reactions: None provided product is correctly stored and handled.

Substances to avoid: Oxidising agents.

Hazardous decomposition products: None if stored and handled correctly.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity: (based on product with similar structure and composition):

Ingestion: Harmful. LD<sub>50</sub> oral (rat): 1458 mg/kg

Skin contact: Not Irritating to skin. LD<sub>50</sub> dermal: (rat) >4000 mg/kg

Inhalation: Harmful. LD<sub>50</sub> inhalation (rat) 4hr: 3.21 mg/l

Eye contact: Not Irritating.

Sensitising potential: No sensitising effect.

**12. ECOLOGICAL INFORMATION**

Ecotoxic effects (based on product with similar structure and composition):

Ecotoxic effects: Fish LC<sub>50</sub> 96h: 0.019 mg/l

Daphnia LC<sub>50</sub> (48h): 0.285 mg/l

Algae EC<sub>50</sub> (72 h): 0.256 mg/l

**13. DISPOSAL CONSIDERATIONS**

Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.

Disposal of used containers: Follow the directions given in the DEFRA publication "Code of practice for using plant protection products".

Disposal of diluted pesticide: Advice for the disposal or re-use of diluted pesticide is given in the DEFRA publication "code of practice for using plant protection products".

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**14. TRANSPORT INFORMATION**

UN Number : 3077

Packing Group : III

**ROAD/RAIL**

ADR/RID Class : 9

Description of goods : Environmentally hazardous substance, solid, N.O.S (contains tebufenpyrad 20%, alcohol ethoxylate)

**SEA**

IMDG Class : 9

Description of goods : Environmentally hazardous substance, solid, N.O.S (contains tebufenpyrad 20%, alcohol ethoxylate)  
Marine pollutant.**AIR**

ICAO/IATA Class : 9

Description of goods : Environmentally hazardous substance, solid, N.O.S (contains tebufenpyrad 20%, alcohol ethoxylate)

Pack sizes : 10 x 100 g sachets

No. per outer : 10 packs

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 and their amendments.

**15. REGULATORY INFORMATION**

This product is approved under the "Control of Pesticides Regulations 1986".

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 2005 (CHIP 3.1).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH) if certain threshold quantities are exceeded.

Hazard classification(s) See Section 3

R-phrase(s) See Section 3

S-phrase(s)

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S2	Keep out of reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S35	This material and it's container must be disposed of in a safe way.
S46	If swallowed seek medical advice immediately and show this container or label.
S57	Use appropriate containment to avoid environmental contamination.

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

**16. OTHER INFORMATION**

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407333 (24 hours).

\	Xn	Harmful
\	Xi	Irritant
\	N	Dangerous for the environment
\	R20	Harmful by inhalation.
\	R22	Harmful if swallowed.
\	R36	Irritating to eyes.
\	R37	Irritating to respiratory system.
\	R38	Irritating to skin.
\	R41	Risk of serious damage to eyes.
\	R43	May cause sensitisation by skin contact.
\	R50/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

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Masai (V3)

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