



Reg. No. 10-D-189-1

CONTENTS: 50 ml



**HARMFUL IF SWALLOWED**

**COMPOSITION:**

	<b>MASS/VOL</b>
flubendiamide .....	480 g/l
inert ingredients .....	520 g/l

**Chemical Group: phalic acid diamide**

**BELT IS A FOLIAR NON-SYSTEMIC SUSPENSION CONCENTRATE INSECTICIDE FOR THE CONTROL OF DIAMOND-BACK MOTH IN BRASSICAS, TUBER MOTH IN POTATOES AND BUDWORM IN TOBACCO.**

Packed For: Bayer Zimbabwe (Pvt) Ltd P.O. Box AY 78, Amby, Harare, Zimbabwe.

Tel. 487211/487245/7 Fax. 487242 IN CASE OF POISONING PLEASE PHONE: +27 (21) 931-6129

Manufactured by Bayer CropScience AG

Batch No.: See on pack

Belt® is a registered trademark of Bayer CropScience AG, Germany.

Date of Manufacture:

Code: 80243766



Bayer CropScience

**BELT**

UVP No.: 06364705

## MATERIAL SAFETY DATA SHEET

Version : 1 / EU  
102000010980

Review date : 07/08/2006

Page : 1 of 6

### 1. PRODUCT AND COMPANY IDENTIFICATION

Name : Bayer (Pty) Ltd. Telephone : +27 (011) 921 5911  
Address : 27 Wrench Road  
P.O. Box 143 Fax : +27 (011) 921 5766  
**ISANDO**  
1600  
Trade name : **Belt**  
Usage : Insecticide  
Chemical family : Substituted phthalic acid diamides  
Chemical name : 3-iodo-N` - (2-mesyl-1,1-dimethylethyl)-N-{4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)]-O-tolyl} phthalamide  
Chemical abstract No.: 272451-65-7  
Hazchem code :  
UN No. : 3082

Emergency telephone numbers : **+27 (021) 931 6129 and +27 (011) 624 2800**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Suspension concentrate (=flowable concentrate)(SC)  
Flubendiamid 480 g/l

#### Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Flubendiamide	272451-65-7			39,40

### 3. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

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

### 4. FIRST AID MEASURES

#### General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways).  
Remove contaminated clothing immediately and dispose of safely.

#### Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

#### Skin contact

Wash off immediately with soap and plenty of water.



## **MATERIAL SAFETY DATA SHEET**

**Version** : 1 / EU  
102000010980

**Review date** : 07/08/2006

**Page** : 2 of 6

### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

### **Ingestion**

Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

### **Notes to Physician**

### **Treatment**

Elementary aid, decontamination and symptomatic treatment.

---

## **5. FIRE-FIGHTING MEASURES**

### **Suitable Extinguishing Media**

water spray  
carbon dioxide (CO<sub>2</sub>)  
foam  
sand

### **Specific hazards during fire fighting**

In the event of fire the following can be released:  
nitrous gases (NO<sub>x</sub>)  
hydrogen cyanide (hydrocyanic acid)  
carbon monoxide (CO)  
sulphur dioxide (SO<sub>2</sub>)  
hydrogen fluoride

### **Special protective equipment for fire-fighters**

In the event of fire and/or explosion do not breathe fumes.  
Use breathing apparatus.

### **Further information**

Contain the spread of the fire-fighting media.  
Do not allow run-off from fire fighting to enter drains or water courses.

---

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions**

Avoid contact with spilled product or contaminated surfaces.  
Wear personal protective equipment. Unprotected persons must be kept away.

### **Environmental Precautions**

Do not discharge into the drains/surface water/groundwater.

### **Methods for Cleaning Up**

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).  
Clean contaminated floors and objects thoroughly, observing environmental regulations.  
Keep in suitable, closed containers for disposal.

### **Additional Advice**

Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

---

**MATERIAL SAFETY DATA SHEET**Version : 1 / EU  
102000010980

Review date : 07/08/2006

Page : 3 of 6

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

**Storage**

Requirements for storage areas and containers

Store in original container.

Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feeding stuffs.

Storage stability

Storage temperature &lt; 50 °C

Other data

Do not store at temperatures below -10 °C.

Suitable materials

HDPE (high density polyethylene)

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protective equipment**

Hand Protection PVC or other plastic material gloves

Eye protection Safety glasses with side-shields

Hygiene measures

Avoid contact with skin, eyes and clothing.

Keep working clothes separately.

Wash hands before breaks and at the end of workday.

Remove soiled and/or soaked clothing immediately and clean thoroughly before using again.

Garments that cannot be cleaned must be destroyed (burnt).

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form Suspension

Colour white

Odour weak, characteristic

**Safety data**

pH 6,8 Determined in the undiluted form.

Flash point > 100 °C 92/69/EEC, A.9 / EPA OPPTS 830.6315  
No flash point - Determination conducted up to the boiling point.Density ca. 1,22 g/cm<sup>3</sup> at 20 °C

Water solubility miscible



**MATERIAL SAFETY DATA SHEET**

Version : 1 / EU  
102000010980

Review date : 07/08/2006

Page : 4 of 6

**10. STABILITY AND REACTIVITY**

Hazardous Reactions                      No hazardous reactions when stored and handled according to prescribed instructions.

**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity	LD50 (rat) >= 5.000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 2,564 mg/ℓ. Exposure time: 4 h Highest attainable concentration. Determined in the form of a respirable aerosol.
Acute Dermal Toxicity	LD50 (rat) > 4.000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) > 250 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 0,0065 mg/l Exposure time: 48 h
Toxicity to algae	IC50 ( <i>Pseudokirchneriella subcapitata</i> ) > 0,07 mg/ℓ. Exposure time: 72 h. The value mentioned relates to the active ingredient. No acute toxicity was observed at its limit of water solubility.

**13. DISPOSAL CONSIDERATIONS**

**Product**

In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

**MATERIAL SAFETY DATA SHEET**Version : 1 / EU  
102000010980

Review date : 07/08/2006

Page : 5 of 6

**14. TRANSPORT INFORMATION****ADR/RID/ADNR**

UN-No	<b>3082</b>
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUBENDIAMID)

**IMDG**

UN-No	<b>3082</b>
Class	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUBENDIAMID )

**IATA**

UN-No	<b>3082</b>
Class	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUBENDIAMID )

**15. REGULATORY INFORMATION****Classification and labeling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.**

## Classification:

Labeling according to EC Directives

## Hazardous components which must be listed on the label:

- Flubendiamide

## Symbol(s)

N Dangerous for the environment

## R-phrase(s)

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrase(s)

S35 This material and its container must be disposed of in a safe way.  
S57 Use appropriate container to avoid environmental contamination.

## Exceptional labeling

To avoid risks to man and the environment, comply with the instructions for use.

## Further information

WHO-classification: III (Slightly hazardous)



Bayer CropScience

**BELT**

UVP No.: 06364705

## **MATERIAL SAFETY DATA SHEET**

Version : 1 / EU  
102000010980

Review date : 07/08/2006

Page : 6 of 6

### **16. OTHER INFORMATION**

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

This version replaces all previous versions.