

**REGULOX K SL250 1X20L JUG GB**Version 1 / GB  
102000019041/6  
Revision Date: 20.04.2006  
Print Date: 21.06.2006**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name REGULOX K SL250 1X20L JUG GB  
Product code (UVP) 05926203  
Usage growth regulator  
Company Bayer Environmental Science  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
Great Britain

Telephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Emergency telephone number 0800-220876 (UK 24 hr)  
+44(0)1603-242424 (Overseas 24 hr)

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**

Soluble concentrate (SL)  
Maleic hydrazide 250 g/l

**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Maleic hydrazide, potassium salt	51542-52-0 257-261-0			29.10

**3. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

No particular hazards known.

**4. FIRST AID MEASURES****General advice**

Remove contaminated clothing immediately and dispose of safely.

**Inhalation**

Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

**Skin contact**

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

**Eye contact**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



## REGULOX K SL250 1X20L JUG GB

Version 1 / GB  
10200001904

2/6  
Revision Date: 20.04.2006  
Print Date: 21.06.2006

### Ingestion

Do not induce vomiting. Keep at rest. Rinse mouth. Obtain medical attention.

### Notes to Physician

### Symptoms

Local:, To date no symptoms are known.

### Symptoms

Systemic:, To date no symptoms are known.

### Treatment

Local treatment:

Initial treatment should be symptomatic and supportive.

### Treatment

Systemic treatment:

Initial treatment should be symptomatic and supportive.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Extinguishing media which must not be used for safety reasons

high volume water jet

### Specific hazards during fire fighting

In case of fire the evolution of dangerous gases is possible.

### Special protective equipment for fire-fighters

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

Wear self contained breathing apparatus for fire fighting if necessary.

### Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Keep people away from and upwind of spill/leak.

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.

### Environmental Precautions

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

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### Methods for Cleaning Up

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).

Keep in suitable, closed containers for disposal.

Clean floors and contaminated objects with plenty of water.



## REGULOX K SL250 1X20L JUG GB

Version 1 / GB  
10200001904

3/6  
Revision Date: 20.04.2006  
Print Date: 21.06.2006

### Additional Advice

Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.  
Check also for any local site procedures.

---

## 7. HANDLING AND STORAGE

### Handling

#### Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.  
Use only in area provided with appropriate exhaust ventilation.

#### Advice on protection against fire and explosion

No special precautions required.

### Storage

#### Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.  
Store in a place accessible by authorized persons only.  
Keep away from direct sunlight.  
Protect against frost.

#### Storage stability

Storage temperature 0 - 30 °C

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.**

### Personal protective equipment

Respiratory Protection	No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and Type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.



## REGULOX K SL250 1X20L JUG GB

Version 1 / GB  
10200001904

4/6  
Revision Date: 20.04.2006  
Print Date: 21.06.2006

### Hygiene measures

When using, do not eat, drink or smoke.  
Remove soaked protective clothing immediately.  
Remove soiled clothing immediately.  
Clean hands and face at work intervals and after work.  
Work in an adequately ventilated room.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Colour brown

### Safety data

pH 8.5 - 10.0  
Determined in the undiluted form.

Density ca. 1.17 g/cm<sup>3</sup> at 20 °C

Water Solubility miscible

---

## 10. STABILITY AND REACTIVITY

Conditions to Avoid Extremes of temperature and direct sunlight.

Materials to avoid None.

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed instructions.  
Stable under recommended storage conditions.

---

## 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50 (rat) > 2,000 mg/kg

Acute Inhalation Toxicity LC50 (rat) > 20 mg/l  
Exposure time: 4 h

Acute Dermal Toxicity LD50 (rat) > 2,000 mg/kg

Skin Irritation No skin irritation. (rabbit)

Eye Irritation No eye irritation. (rabbit)

Sensitization Non-sensitizing. (guinea pig)

### Further information

Information given is based on data on the components and the toxicology of similar products.

---



## REGULOX K SL250 1X20L JUG GB

Version 1 / GB  
102000001904

5/6  
Revision Date: 20.04.2006  
Print Date: 21.06.2006

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity effects

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) > 1,000 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient maleic hydrazide potassium salt.
Toxicity to daphnia	EC50 (Daphnia) > 1,000 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient maleic hydrazide potassium salt.
Toxicity to algae	EC50 ( <i>Selenastrum capricornutum</i> ) > 9.84 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient maleic hydrazide potassium salt.

### 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.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

#### Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

#### Waste key for the unused product

020109 Agrochemical waste other than those mentioned in 020108.

### 14. TRANSPORT INFORMATION

ADNR	Not dangerous goods
ADR	Not dangerous goods
GGVE	Not dangerous goods
GGVS	Not dangerous goods
IATA_C	Not dangerous goods
IATA_P	Not dangerous goods
IMDG	Not dangerous goods
RID	Not dangerous goods
UK 'Carriage' Regulations	Not dangerous goods

### 15. REGULATORY INFORMATION



**REGULOX K SL250 1X20L JUG GB**

Version 1 / GB  
102000001904

6/6  
Revision Date: 20.04.2006  
Print Date: 21.06.2006

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Hazard warning labelling not compulsory  
Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

Hazardous components which must be listed on the label:

- Maleic hydrazide, potassium salt

Exceptional labelling

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

Further information

WHO-classification: II (Moderately hazardous)

---

## 16. OTHER INFORMATION

### Further information

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
--