

**DRAT CB2,5 10X500ML BOT GB**Version 1 / GB  
1020000021651/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

|                            |  |
|----------------------------|--|
| Trade name                 | DRAT CB2,5 10X500ML BOT GB   |
| Product code (UVP)         | 05931487   |
| Usage                      | Rodenticide  |
| Company                    | Bayer Environmental Science<br>230 Cambridge Science Park<br>Milton Road<br>Cambridge<br>Cambridgeshire CB4 0WB<br>Great Britain |
| Telephone                  | +44(0)1223 226500  |
| Telefax                    | +44(0)1223 426240  |
| Responsible Department     | Email: <a href="mailto:ukinfo@bayercropscience.com">ukinfo@bayercropscience.com</a>  |
| Emergency telephone number | 0800-220876 (UK 24 hr)<br>+44(0)1603-242424 (Overseas 24 hr)   |

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

Harmful in contact with skin and if swallowed.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Bait concentrate (CB)  
Chlorophacinone 2.5 g/l

**Hazardous components**

| Chemical Name   | CAS-No. / EINECS-No.   | Symbol(s) | R-phrase(s)                          | Concentration [%] |
|-----------------|------------------------|-----------|--------------------------------------|-------------------|
| Chlorophacinone | 3691-35-8<br>223-003-0 | T+, N     | R23, R27/28,<br>R48/24/25,<br>R50/53 | 0.29              |

For the full text of the R phrases mentioned in this Section, see Section 16.

**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.



## DRAT CB2,5 10X500ML BOT GB

Version 1 / GB  
102000002165

2/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008

### 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.

### Ingestion

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

### Notes to Physician

#### Symptoms

The following symptoms may occur: Nose bleeding, Gum bleeding, Bruising and haemorrhage formation, Bloody urine, bloody faeces

#### Risks

Delayed toxic effects (anticoagulation) of 36 to 72 hours.

#### Treatment

Monitor respiratory, cardiac, kidney and blood (Hb, RBC, WBC).

Monitor the blood clotting time (prothrombin time).

Gastric lavage with charcoal, if necessary further treatment.

Anticonvulsant therapy: None.

Antidote: vitamine K1 - 10 mg i.v., if necessary repeat; in cases of grave bleeding: prothrombin complex preparates.

Spontaneous recovery.

---

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

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

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

High volume water jet

### Specific hazards during fire fighting

Dangerous gases are evolved in the event of a fire.

### Special protective equipment for fire-fighters

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

In the event of fire, wear self-contained breathing apparatus.

### 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 allow to get into surface water, drains and ground water.

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

If spillage enters rivers or watercourses, inform the Environment Agency (emergency)



## DRAT CB2,5 10X500ML BOT GB

Version 1 / GB  
102000002165

3/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008

telephone number 0800 807060).

### Methods for Cleaning Up

Keep in suitable, closed containers for disposal.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Clean floors and contaminated objects with plenty of water.

### 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

Keep away from heat and sources of ignition.  
Vapours may form explosive mixture with air.

### Storage

#### Requirements for storage areas and containers

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

#### Advice on common storage

Keep away from food, drink and animal feedingstuffs.

#### Storage stability

##### Other data

Storage temperature should ideally lie between 0 and 40 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

---

## 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

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

#### Respiratory Protection

Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have



## DRAT CB2,5 10X500ML BOT GB

Version 1 / GB  
102000002165

4/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008

|                          |   |
|--------------------------|---|
|                          | 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.<br>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.  |
| Hygiene measures         | When using, do not eat, drink or smoke.<br>Remove soiled clothing immediately and clean thoroughly before using again.<br>Wash hands immediately after work, if necessary take a shower.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Colour dark red

### Safety data

Ignition temperature > 250 °C  
The data refer to the solvent.

Density approx. 0.848 g/cm<sup>3</sup> at 20 °C

Water solubility insoluble

## 10. STABILITY AND REACTIVITY

Conditions to Avoid Extremes of temperature and direct sunlight.

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) > 200 - < 2,000 mg/kg



## DRAT CB2,5 10X500ML BOT GB

Version 1 / GB  
102000002165

5/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008

|                           |  |
|---------------------------|--|
| Acute Inhalation Toxicity | LC50 (rat) > 20.0 mg/l<br>Exposure time: 4 h<br>When inhaled in high concentration, the solvent vapours cause a narcotic effect. |
| Acute Dermal Toxicity     | LD50 (rat) > 400 - < 2,000 mg/kg   |
| Skin Irritation           | No skin irritation. (rabbit)   |
| Eye Irritation            | No eye irritation. (rabbit)  |
| Sensitization             | Non-sensitizing. (guinea pig)  |

### Further information

The above values are calculated as prescribed by the "Conventional Method" according to 1999/45/EC.

---

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

|                     |   |
|---------------------|---|
| Toxicity to Fish    | LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0.35 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient chlorophacinone. |
| Toxicity to daphnia | EC50 (Water flea ( <i>Daphnia magna</i> )) 0.42 mg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient chlorophacinone.          |
| Toxicity to algae   | EC50 (Algae) 0.2 mg/l<br>Exposure time: 72 h<br>The value mentioned relates to the active ingredient chlorophacinone.   |

---

## 13. DISPOSAL CONSIDERATIONS

### Product

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

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

### Contaminated packaging

Empty remaining contents.

Do not use containers for other products.

Clean container with water.

Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

Not completely emptied packagings should be disposed of as hazardous waste.



## DRAT CB2,5 10X500ML BOT GB

Version 1 / GB  
102000002165

6/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008

### Waste key for the unused product

020108 agrochemical waste containing dangerous substances

---

## 14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

---

## 15. REGULATORY INFORMATION

**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 compulsory

Hazardous components which must be listed on the label:

- Chlorophacinone

Symbol(s)

Xn Harmful

R-phrase(s)

R21/22 Harmful in contact with skin and if swallowed.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S36/37 Wear suitable protective clothing and gloves.

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

Text of R phrases mentioned in Section 3:

R23 Toxic by inhalation.

R27/28 Very toxic in contact with skin and if swallowed.

R48/24/25 Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

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

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.



**DRAT CB2,5 10X500ML BOT GB**

Version 1 / GB  
102000002165

7/7  
Revision Date: 09.04.2008  
Print Date: 11.04.2008

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.