

ENVIRONMENTAL PROTECTION  
AGENCY WASTE LICENSING  
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**ATTACHMENT G1**  
**RESOURCE USE AND ENERGY EFFICIENCY**

## ATTACHMENT G1 – RESOURCE USE AND ENERGY EFFICIENCY

The quantities of raw materials to be consumed in the development of the proposed engineered landfill are summarised in Section 2.3.3 of the Environmental Impact Statement.

The use of hazardous substances for the proposed remediation scheme is limited to use of rodenticides and insecticides (where required) during the excavation and placement of waste. Data and safety sheets for these products are attached.

Small scale energy requirements for site offices, lighting, heating, security cameras will be provided by a temporary generator or a connection from overhead electrical power lines. Plant and equipment required to undertake the proposed remediation scheme will be powered by diesel fuel.

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WASTE Application Form

**Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site**

Ref. N <sup>o</sup> or Code	Material/ Substance <sup>(1)</sup>	CAS Number	Danger <sup>(2)</sup> Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R <sup>(3)</sup> - Phrase	S <sup>(3)</sup> - Phrase
910	Insecticide – ACTELLIC 25EC	29232-93-7	Flammable Irritant	0	TBA	Occasional	R10/38	
6787 / 7193	Rodenticide – RATAK	56073-07-05	Dangerous to the Environment Toxic Very Toxic	0	TBA	Occasional	R26/27/28 R48/23/24/25 R50/53	
6703	Rodenticide – KLERAT	56073-10-0	Dangerous to the Environment Toxic Very Toxic	0	TBA	Occasional	R26/27/28 R48/23/24/25 R50/53	

- Notes:
1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
  2. c.f. Article 2(2) of SI N<sup>o</sup> 77/94
  3. c.f. Schedules 2 and 3 of SI N<sup>o</sup> 77/94



# Product Safety Data Sheet

Product Name: **'ACTELIC' 25EC**

## Agrochemicals

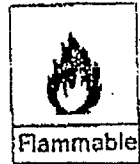
### Professional Products

Woolmead House East  
Woolmead Walk, Farnham  
Surrey GU9 7UB

Use: Insecticide (Liquid)

Chemical Group: Organophosphorus

HSE No: 910



**EMERGENCY TELEPHONE No. (0622) 812511 ANYTIME**

## ACTIVE INGREDIENT

Common Name: pirimiphos-methyl

Chemical Name: 0-2-diethylamino-6-methylpyrimidin-4-yl 0,0-dimethyl phosphorothioate

Chem Abs No : 29232-93-7

## FORMULATION

Emulsifiable concentrate containing 26.3 % w/w (250g/litre) pirimiphos methyl.  
Inert ingredients of toxicological significance: Hydrocarbon solvent.

## PHYSICAL PROPERTIES

A clear straw-coloured liquid

Water solubility: miscible

Specific gravity: 0.95

Flash Point : >38°C

## GENERAL HAZARD STATEMENT

FLAMMABLE

IRRITATING TO SKIN

## PRECAUTIONS (from Product Label)

Pirimiphos-methyl is an organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

WEAR SYNTHETIC RUBBER OR PVC GLOVES when handling concentrate.

WEAR COTTON OVERALLS when mistblowing.

WASH SPLASHES OF CONCENTRATE from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

ENSURE ADEQUATE VENTILATION IN CONFINED SPACE.

DO NOT BREATHE SPRAY MIST. If necessary for personal comfort, wear a mask.

WASH HANDS AND EXPOSED SKIN before meals and after work.

TAKE OFF immediately heavily contaminated clothing.

STORE AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

VENTILATE CONFINED SPACES THOROUGHLY

HARMFUL TO FISH. Do not contaminate ponds, waterways or ditches, with chemical or used containers.

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

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

'Actellic' is a trade mark of Imperial Chemical Industries PLC England

## 'Actellic' 25EC

### PROTECTIVE CLOTHING

Refer to:

- a) Product label precautions for specific clothing requirements.
- b) HSE guidelines on handling of pesticides and protective clothing for use with pesticides.

### FIRST AID

#### INGESTION

Do not induce vomiting if medical attention can be obtained within a reasonable time (ie one hour); seek such attention immediately. If not, induce vomiting by tickling the back of the throat.

#### SKIN

Remove contaminated clothing at once. Thoroughly wash areas of contaminated skin with plenty of soap and water. Such immediate action is essential to prevent skin penetration. If feeling unwell, seek medical attention. Contaminated clothing must be re-used only after thorough washing.

#### EYES

If eyes are contaminated they must be washed out immediately by irrigating the eye for at least 15 minutes. This is done by holding the eye lids open under a steady, gentle stream of water so as to wash off as much of the contaminant as possible. Seek medical attention after the above procedure has been carried out.

#### INHALATION

Remove patient from exposure and into fresh air immediately. Watch patients breathing and be prepared to give artificial respiration.

#### GUIDE TO DOCTOR

No adverse effects are likely as a result of normal handling and usage. If swallowed, initial effects may be non-specific with abdominal pain, nausea, vomiting and diarrhoea. This may be followed by symptoms typical of organophosphorus poisoning eg excessive salivation, constriction of pupils, slurred speech, blurred vision, muscular weakness and cold sweating. In very severe cases bradycardia, sweating, salivation and lachrymation occur initially leading to convulsions, coma and generalised muscular contraction. Respiratory failure and death may then occur. Antidotes are atropine sulphate and cholinesterase reactivators such as Pralidoxime or Toxogonin.



### STORAGE

Products must be stored in the original labelled container, tightly closed in a safe place away from children, pets and all food products and protected from extremes of temperature.

### TRANSPORT

Packing Group: III

IMDG Class/Conveyance Class: 3 Flammable Liquid

Proper Shipping Name: Flammable Liquids, N.O.S., (Contains substituted Benzenoid Hydrocarbon Solvents)

UN Number: 1993

Pack Size(s) :1 litre

No per outer :12

Outers per pallet:48

### EMERGENCY MEASURES

#### FIRE

Flammable liquid. Extinguish preferably with dry chemical, foam or waterspray.

#### SPILLAGE

No naked lights.

No smoking.

Absorb liquid with sand or earth - consult an expert.

If product has entered a water course or sewer or contaminated soil or vegetation, advise police.

#### DISPOSAL OF UNWANTED PESTICIDE AND CONTAINERS

Dispose of product concentrate, diluted product and empty containers according to the 'Code of Practice for the Agricultural and Commercial Horticultural Use of Pesticides' available from MAFF.

Contact the Local Council Authority for advice on the disposal of pesticide waste or approved pesticide waste disposal contractor.

#### TOXICITY

The acute oral LD50 to the rat of Actellic 25 EC is 8200 mg/kg. The acute dermal LD50 is greater than 8000 mg/kg. It is a moderate eye irritant and may be a skin irritant.

December 1988

# SAFETY DATA SHEET

## Ratak Wax Blocks

### PRODUCT AND COMPANY IDENTIFICATION

**Trade Name** Ratak Wax Blocks  
**Product Code** DIFE80341  
**Intended Use** FOR USE ONLY AS A RODENTICIDE  
The product must be used only in accordance with the label.  
Health and Safety Executive HSE 6787, HSE 7193

**Appearance** A dark green wax block.

**Manufacturer/Supplier** Sorex Limited  
**Address** St Michael's Industrial Estate,  
Widnes, Cheshire  
WA8 8TJ  
United Kingdom  
**Phone Number (24h)** +44 (0) 151-420 7151  
**Fax Number** +44 (0) 151-495 1163

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components in Preparation

Component Name	CAS No.	Concentration	Classification
1. Difenacoum Technical Material	56073-07-05	0.005%	T+;R26/27/28, T;R48/23/24/25, N;R50/53
N	Dangerous to the Environment.		
T	Toxic		
T+	Very toxic.		
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.		
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

### HAZARDS IDENTIFICATION

#### Main Hazards

Not classified as hazardous.  
Avoid all contact by mouth.  
Large quantities would need to be ingested to produce a toxic effect.  
Practically non-hazardous by skin contact.

This product contains difenacoum, an indirect anticoagulant. Any signs of poisoning are unlikely to occur until 12-18 hours after exposure. Thereafter, they will develop progressively and may rapidly appear. Clinical signs result from an increased bleeding tendency and include: an increase in prothrombin time, bruising easily with occasional gum bleeding, blood in the stool or urine, excessive bleeding from minor cuts and abrasions, pale mouth and cold gums, anorexia and general weakness. More severe cases of poisoning include haemorrhage (usually internal) and shock. This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.

### FIRST AID MEASURES

**First Aid - Eyes** Wash out eye with plenty of water. Obtain medical advice if necessary.

**First Aid - Skin** Wash skin with soap and water.

**First Aid - Ingestion** Do not induce vomiting. Wash out mouth with water. Obtain medical advice if necessary.

**First Aid - Inhalation** Remove from exposure. Obtain medical advice if necessary.

## **FIRST AID MEASURES (continued)**

### **Advice to Physicians**

Difenacoum is an indirect anticoagulant. Vitamin K1 (phytomenadione) is antidotal. Other forms of Vitamin K are not effective.

In the case of suspected poisoning, determine prothrombin time up to 48 hours after exposure. If elevated, administer Vitamin K1, 10-20 mg (0.25mg/kg for children) by slow intravenous injection, and continue until prothrombin time stabilises. Continue treatment with an oral Vitamin K1 dose of 10 mg four times per day until the prothrombin time has remained normal for three days. Further treatment, an oral dose of 10 mg twice daily, may be required for up to several months. Prothrombin time should be checked 24-hours, 3 days and 1 week after the last dose of Vitamin K1 before a decision is made to stop treatment.

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## **FIRE-FIGHTING MEASURES**

This product is non-flammable, but is combustible.

### **Extinguishing Media**

Use water spray, foam, dry chemical or carbon dioxide. Cool the smouldering material with water spray to minimise the possibility of re-ignition. Keep containers and surroundings cool with water spray.

### **Protective Equipment for Fire-Fighting**

Wear self contained breathing apparatus.

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## **ACCIDENTAL RELEASE MEASURES**

### **Spillages**

Any spillages should be cleared up immediately and disposed of safely. Wash contaminated surfaces with detergent solution.

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## **HANDLING AND STORAGE**

### **Storage**

Store in original container under cool and dry conditions in a secure, well ventilated place, inaccessible to children and away from food, animal feedstuffs and products which may have an odour.

### **Handling**

The product must be used only in accordance with the label. Avoid contact with eyes, skin and clothing. Refer also to the section 'Exposure Controls/Personal Protection'.

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## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Occupational Exposure Standards**

**1. Difenacoum Technical Material**                      None assigned.

Exposure controls should be implemented with due regard to the hierarchy of controls (elimination, substitution, local exhaust ventilation, operating procedures and Personal Protective Equipment (PPE)). PPE should only be used as a last resort where exposure cannot be controlled by other means.

### **Hand Protection**

Although gloves are not required for the safe use of the product, they are recommended for protection against rodent-borne diseases.



# SAFETY DATA SHEET

## Ratak Wax Blocks

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	A square-shaped wax block with a central hole.
<b>Colour</b>	Dark Green.
<b>Odour</b>	No significant odour.
<b>Relative Density</b>	ca. 1.09.
<b>Melting Point, °C</b>	>50
<b>Flammability</b>	Not flammable.
<b>Solubility in Water</b>	Insoluble.
<b>Explosive Properties</b>	None.
<b>Oxidising Properties</b>	None.

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### STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions of use.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products are not expected to be formed during normal storage.

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### TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Oral LD50 (rat) 36000 mg/kg.
<b>Irritancy - Eyes</b>	Not an eye irritant.
<b>Irritancy - Skin</b>	Not a skin irritant.
<b>Skin Sensitisation</b>	Studies have not revealed any evidence of skin sensitisation effects.

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### ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.
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### DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	The best means of disposal of any product is through proper use according to the label. This product must be disposed of as controlled waste.
<b>Container Disposal</b>	This container must be disposed of as controlled waste. Any disposal must comply with Local and National Requirements. Refer also to relevant EU provisions.

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### TRANSPORT INFORMATION

<b>Non-hazardous</b>	Non-hazardous for transport.
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## **REGULATORY INFORMATION**

### ***Intended Use***

**FOR USE ONLY AS A RODENTICIDE**

The product must be used only in accordance with the label.

Health and Safety Executive HSE 6787, HSE 7193

### ***Precautions Phrases***

Keep out of reach of children.

Avoid all contact by mouth.

When using do not eat, drink or smoke.

Wash hands and exposed skin before meals and after use.

Do not use bait where food, feed or water could become contaminated.

Prevent access to the bait by children, birds and other animals, particularly dogs, cats, pigs and poultry.

Remove all remains of bait and bait containers after treatment and dispose of safely. Do not dispose of in refuse sacks or on open rubbish tips.

Search for rodent bodies and dispose of safely. Do not dispose of in refuse sacks or on open rubbish tips.

Keep away from food, drink and animal feeding stuffs.

Keep in original container, tightly closed, in a safe place.

This material and its container must be disposed of in a safe way.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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## **OTHER INFORMATION**

For use only as specified on the label.

This product contains a human taste deterrent and warning dyes. The human taste deterrent is included at a concentration that is repulsive to human taste but is not detected by rats or mice.

The information in this data sheet should be considered when undertaking a risk assessment. A data sheet does not constitute a risk assessment.

This data sheet was prepared in accordance with the European Directive 91/155/EC as amended by 93/112/EC and 2001/58/EC.

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# SAFETY DATA SHEET

## Klerat Wax Blocks

### PRODUCT AND COMPANY IDENTIFICATION

**Trade Name** Klerat Wax Blocks  
**Product Code** BROD80339  
**Intended Use** FOR USE ONLY AS A RODENTICIDE  
The product must be used only in accordance with the label.  
Health and Safety Executive HSE 6703

**Appearance** A dark blue wax block.

**Manufacturer/Supplier** Sorex Limited  
**Address** St Michael's Industrial Estate,  
Widnes, Cheshire  
WA8 8TJ  
United Kingdom

**Phone Number (24h)** +44 (0) 151-420 7151  
**Fax Number** +44 (0) 151-495 1163

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components in Preparation

Component Name	CAS No.	Concentration	Classification
1. Brodifacoum Technical Material	56073-10-0	0.005%	T+;R26/27/28, T;R48/23/24/25, N;R50/53
N	Dangerous to the Environment.		
T	Toxic		
T+	Very toxic.		
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.		
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

### HAZARDS IDENTIFICATION

#### Main Hazards

Not classified as hazardous.  
Avoid all contact by mouth.  
Large quantities would need to be ingested to produce a toxic effect.  
Practically non-hazardous by skin contact.

This product contains brodifacoum, an indirect anticoagulant. Any signs of poisoning are unlikely to occur until 12-18 hours after exposure. Thereafter, they will develop progressively and may rapidly appear. Clinical signs result from an increased bleeding tendency and include: an increase in prothrombin time, bruising easily with occasional gum bleeding, blood in the stool or urine, excessive bleeding from minor cuts and abrasions, pale mouth and cold gums, anorexia and general weakness. More severe cases of poisoning include haemorrhage (usually internal) and shock. This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.

### FIRST AID MEASURES

**First Aid - Eyes** Wash out eye with plenty of water. Obtain medical advice if necessary.

**First Aid - Skin** Wash skin with soap and water.

**First Aid - Ingestion** Do not induce vomiting. Wash out mouth with water. Obtain medical advice if necessary.

**First Aid - Inhalation** Remove from exposure. Obtain medical advice if necessary.

# SAFETY DATA SHEET

## Klerat Wax Blocks

### FIRST AID MEASURES (continued)

#### *Advice to Physicians*

Brodifacoum is an indirect anticoagulant. Vitamin K1 (phytomenadione) is antidotal. Other forms of Vitamin K are not effective.

In the case of suspected poisoning, determine prothrombin time up to 48 hours after exposure. If elevated, administer Vitamin K1, 10-20 mg (0.25mg/kg for children) by slow intravenous injection, and continue until prothrombin time stabilises. Continue treatment with an oral Vitamin K1 dose of 10 mg four times per day until the prothrombin time has remained normal for three days. Further treatment, an oral dose of 10 mg twice daily, may be required for up to several months. Prothrombin time should be checked 24-hours, 3 days and 1 week after the last dose of Vitamin K1 before a decision is made to stop treatment.

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### FIRE-FIGHTING MEASURES

This product is non-flammable, but is combustible.

#### *Extinguishing Media*

Use water spray, foam, dry chemical or carbon dioxide. Cool the smouldering material with water spray to minimise the possibility of re-ignition. Keep containers and surroundings cool with water spray.

#### *Protective Equipment for Fire-Fighting*

Wear self contained breathing apparatus.

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### ACCIDENTAL RELEASE MEASURES

#### *Spillages*

Any spillages should be cleared up immediately and disposed of safely. Wash contaminated surfaces with detergent solution.

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### HANDLING AND STORAGE

#### *Storage*

Store in original container under cool and dry conditions in a secure, well ventilated place, inaccessible to children and away from food, animal feedstuffs and products which may have an odour.

#### *Handling*

The product must be used only in accordance with the label. Avoid contact with eyes, skin and clothing. Refer also to the section 'Exposure Controls/Personal Protection'.

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### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Standards

1. Brodifacoum Technical Material None assigned.

Exposure controls should be implemented with due regard to the hierarchy of controls (elimination, substitution, local exhaust ventilation, operating procedures and Personal Protective Equipment (PPE)). PPE should only be used as a last resort where exposure cannot be controlled by other means.

#### *Hand Protection*

Although gloves are not required for the safe use of the product, they are recommended for protection against rodent-borne diseases.

# SAFETY DATA SHEET

## Klerat Wax Blocks

### PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	A square-shaped wax block with a central hole.
<i>Colour</i>	Dark Blue
<i>Odour</i>	No significant odour.
<i>Relative Density</i>	ca. 1.09.
<i>Melting Point</i>	> 50
<i>Flammability</i>	Not flammable.
<i>Solubility in Water</i>	Insoluble.
<i>Explosive Properties</i>	None.
<i>Oxidising Properties</i>	None.

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### STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions of use.
<i>Hazardous Decomposition Products</i>	Hazardous decomposition products are not expected to be formed during normal storage.

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### TOXICOLOGICAL INFORMATION

<i>Acute Toxicity</i>	Oral LD50 (rat) 5400 mg/kg.
<i>Irritancy - Eyes</i>	Not an eye irritant.
<i>Irritancy - Skin</i>	Not a skin irritant.
<i>Skin Sensitisation</i>	No known reports of skin sensitisation.

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### ECOLOGICAL INFORMATION

<i>Ecotoxicity</i>	This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.
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### DISPOSAL CONSIDERATIONS

<i>Product Disposal</i>	The best means of disposal of any product is through proper use according to the label. This product must be disposed of as controlled waste.
<i>Container Disposal</i>	This container must be disposed of as controlled waste. Any disposal must comply with Local and National Requirements. Refer also to relevant EU provisions.

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### TRANSPORT INFORMATION

Non-hazardous for transport.

# SAFETY DATA SHEET

## Klerat Wax Blocks

### REGULATORY INFORMATION

#### *Intended Use*

FOR USE ONLY AS A RODENTICIDE

The product must be used only in accordance with the label.

Health and Safety executive HSE 6703

#### *Precautions Phrases*

Keep out of reach of children.

Avoid all contact by mouth.

When using do not eat, drink or smoke.

Wash hands and exposed skin before meals and after use.

Do not use bait where food, feed or water could become contaminated.

Prevent access to the bait by children, birds and other animals, particularly dogs, cats, pigs and poultry.

Remove all remains of bait and bait containers after treatment and dispose of safely. Do not dispose of in refuse sacks or on open rubbish tips.

Search for rodent bodies and dispose of safely. Do not dispose of in refuse sacks or on open rubbish tips.

Keep away from food, drink and animal feeding stuffs.

Keep in original container, tightly closed, in a safe place.

This material and its container must be disposed of in a safe way.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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### OTHER INFORMATION

For use only as specified on the label.

This product contains a human taste deterrent and warning dyes. The human taste deterrent is included at a concentration that is repulsive to human taste but is not detected by rats or mice.

Klerat is a Trade Mark of Syngenta.

The information in this data sheet should be considered when undertaking a risk assessment. A data sheet does not constitute a risk assessment.

This data sheet was prepared in accordance with the European Directive 91/155/EC as amended by 93/112/EC and 2001/58/EC.

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