



DXB-AD-140-1482620  
30-04-2020

رقم التسجيل :  
التاريخ :

قطاع المجتمعات المستدامة  
إدارة الشؤون البلدية

### شهادة تسجيل مبيد كيميائي

مفيد

مبيدات جاهزة للاستخدام (قوارض)

تشهد وزارة التغير المناخي والبيئة بأن المبيد بالمواصفات التالية

الاسم التجاري للمبيد : Klerat Wax Blocks

بلد التسجيل : أيرلندا

المواد الفعالة وتركيزها : Brodifacoum 0.005%

CAS RN : 56073-10-0

صورة المستحضر : Ready to use blocks

حجم العبوة : كيلو جرام 0.1, 0.24, 1, 2.5, 5, 10

بلد (التسجيل/المنشأ) والشركة المنتجة : Syngenta Crop Protection AG - المجر

الشركة المحلية المستوردة : المبارك للكيماويات الزراعية

تاريخ إصدار الشهادة : 30-04-2020 صالحة حتى : 09-06-2023

ملاحظات : لا يوجد

وجد مطابقا لنظام تسجيل المبيدات المتبع لديها وقد أعطيت له هذه الشهادة بناء على ذلك.

#### ملاحظات :

- يعاد تقييم المبيد كل خمس سنوات حتى يتم تجديد هذه الشهادة بعد ذلك.
- تلغى هذه الشهادة في حالة شطب أو سحب المبيد من قبل المنظمات والهيئات العالمية المختصة في تسجيل المبيد أو ثبت للوزارة تدهور المبيد أثناء فترة صلاحيته تحت الظروف البيئية للدولة أو ثبت أن لديه آثار جانبية ضارة

سددت الرسوم 3003 درهم

رقم إيصال الشهادة : 200025035828

تاريخ إيصال الشهادة : 27-04-2020

مدير إدارة الشؤون البلدية

رمز التحقق : 148-2620



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## KLERAT BLOC

Version 2 - This version replaces all previous versions.

Revision Date 17.09.2015

Print Date 17.09.2015

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Product name** : KLERAT BLOC**Design code** : A12720B**Product-specific registration-no.** : BE 2014-0014

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Use** : Rodenticide

#### 1.3 Details of the supplier of the safety data sheet

**Company** : Syngenta Crop Protection nv  
Technologiepark 30  
B-9052 Gent-Zwijnaarde  
Belgium**Telephone** : +32 (0)9/ 210 17 60**Telefax** : +32 (0)9 231 30 13**E-mail address** : contact@syngenta.be

#### 1.4 Emergency telephone number

**Emergency telephone number** : Antipoison centre: 070 245 245. Distribution: 03 575 03 30

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

<b>Precautionary statements</b> :	P102	Keep out of reach of children.
	P103	Read label before use.
	P220	Keep/Store away from clothing/ combustible materials.
	P262	Do not get in eyes, on skin, or on clothing.
	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.
	P280	Wear protective gloves.
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P404	Store in a closed container.
	P405	Store locked up.

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P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

### 2.3 Other hazards

May form flammable dust-air mixture.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
brodifacoum	56073-10-0 259-980-5	T+, N R26/27/28 R43 R48/24/25 R50/53	Acute Tox.1; H300 Acute Tox.1; H310 Acute Tox.1; H330 Skin Sens.1; H317 STOT RE1; H372 Aquatic Acute1; H400 Aquatic Chronic1; H410	0,005 % W/W

Substances for which there are Community workplace exposure limits.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- Inhalation** : Move the victim to fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Keep patient warm and at rest.  
Call a physician or poison control centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- Ingestion** : Take victim immediately to hospital.  
Do NOT induce vomiting.

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### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** : Symptoms of poisoning are typical of anticoagulants. In severe cases there may be bruising, haematomas of the joints, blood in the faeces and urine

### 4.3 Indication of any immediate medical attention and special treatment needed

**Medical advice** : This product contains anticoagulants with an effect similar to warfarin in that they act by interfering with the synthesis of prothrombin. The specific measure of effect is the prothrombin time. Note this may not become prolonged until 12-18 hours after ingestion. The specific antidote is vitamin K1 (Phytomenandione). Antidote must be administered under medical supervision. Initially, antidote should be given by injection (10-20mg, or 0.25mg/kg for children), by slow intravenous infusion at a rate not exceeding 1mg/minute. In severe cases the use of fresh frozen plasma may be required. Maintenance treatment is given orally (40mg/day in divided doses for adults; up to 20mg/day in divided doses for children). The prothrombin time and the haemoglobin should be monitored. Patients should be kept under medical supervision until the prothrombin time has been normal for 3 consecutive days. Oral treatment may need continuing for several months (20mg/day in divided doses for adults and up to 20mg/day in divided doses for children). (For animal cases the dose is 2-5mg/kg).

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray

Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.

### 5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.  
Cool closed containers exposed to fire with water spray.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.  
Avoid dust formation.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).  
Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.  
Refer to disposal considerations listed in section 13.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

No special protective measures against fire required.  
Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

#### 7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.

: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

#### 7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components	Exposure limit(s)	Type of exposure limit	Source
brodifacoum	0,002 mg/m <sup>3</sup>	8 h TWA	SYNGENTA

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

**8.2 Exposure controls**

- Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.
- : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.  
The extent of these protection measures depends on the actual risks in use.  
If airborne dust is generated, use local exhaust ventilation controls.  
Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.  
Where necessary, seek additional occupational hygiene advice.
- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment.  
When selecting personal protective equipment, seek appropriate professional advice.  
Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : No personal respiratory protective equipment normally required.  
A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection** : Chemical resistant gloves are not usually required.  
Select gloves based on the physical job requirements.
- Eye protection** : Eye protection is not usually required.  
Follow any site specific eye protection policies.
- Skin and body protection** : No special protective equipment required.  
Select skin and body protection based on the physical job requirements.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	: solid
<b>Form</b>	: solid
<b>Colour</b>	: dark blue
<b>Odour</b>	: No data available
<b>Odour Threshold</b>	: No data available
<b>pH</b>	: No data available
<b>Melting point/range</b>	: No data available
<b>Boiling point/boiling range</b>	: No data available
<b>Flash point</b>	: No data available
<b>Evaporation rate</b>	: No data available
<b>Flammability (solid, gas)</b>	: not highly flammable
<b>Lower explosion limit</b>	: No data available
<b>Upper explosion limit</b>	: No data available
<b>Vapour pressure</b>	: No data available
<b>Relative vapour density</b>	: No data available
<b>Density</b>	: 1,2 g/cm <sup>3</sup>
<b>Solubility in other solvents</b>	: not soluble in Water
<b>Partition coefficient: n-octanol/water</b>	: No data available
<b>Auto-ignition temperature</b>	: 252 °C
<b>Thermal decomposition</b>	: No data available
<b>Viscosity, dynamic</b>	: No data available
<b>Viscosity, kinematic</b>	: No data available
<b>Explosive properties</b>	: Not explosive
<b>Oxidizing properties</b>	: not oxidizing

#### 9.2 Other information

<b>Minimum ignition temperature</b>	: 350 °C
<b>Dust explosion class</b>	: Forms flammable dust clouds.
<b>Minimum ignition energy</b>	: 0,3 - 1 J
<b>Burning number</b>	: 5 at 100 °C : 2 at 20 °C

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

See section 10.3 "Possibility of hazardous reactions".

#### 10.2 Chemical stability

The product is stable when used in normal conditions

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**10.3 Possibility of hazardous reactions**

No hazardous reactions by normal handling and storage according to provisions.

**10.4 Conditions to avoid**

No decomposition if used as directed.

**10.5 Incompatible materials**

No substances are known which lead to the formation of hazardous substances or thermal reactions.

**10.6 Hazardous decomposition products**

Combustion or thermal decomposition will evolve toxic and irritant vapors.

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

**Acute oral toxicity** : Acute toxicity estimate male and female Rat, > 5.000 mg/kg  
Derived from components.

**Acute inhalation toxicity** : Acute toxicity estimate , > 5,0 mg/l  
Derived from components.

**Acute dermal toxicity** : Acute toxicity estimate male and female Rat, > 5.000 mg/kg  
Derived from components.

**Skin corrosion/irritation** : Rabbit: Non-irritating  
Derived from components.

**Serious eye damage/eye irritation** : Rabbit: Non-irritating  
Derived from components.

Respiratory or skin sensitisation  
brodifacoum : Guinea pig: A skin sensitizer in animal tests.

Germ cell mutagenicity  
brodifacoum : Did not show mutagenic effects in animal experiments.

Carcinogenicity  
brodifacoum : Did not show carcinogenic effects in animal experiments.

Teratogenicity  
brodifacoum : Did not show teratogenic effects in animal experiments.

Reproductive toxicity  
brodifacoum : Did not show reproductive toxicity effects in animal experiments.

STOT - repeated exposure  
brodifacoum : Causes damage to organs through prolonged or repeated exposure.



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### Further information

brodifacoum : Excessive exposure slows blood clotting time and can cause bleeding, shock and death.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), > 100 mg/l , 96 h  
Derived from components.

**Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* (Water flea), > 100 mg/l , 48 h  
Derived from components.

**Toxicity to aquatic plants** : EC50 *Pseudokirchneriella subcapitata* (green algae), > 100 mg/l , 72 h  
Derived from components.

### 12.2 Persistence and degradability

#### Biodegradability

brodifacoum : Not rapidly biodegradable

#### Stability in water

brodifacoum : Degradation half life: ca. 300 d  
Persistent in water.

#### Stability in soil

brodifacoum : Degradation half life: 157 d  
Not persistent in soil.

### 12.3 Bioaccumulative potential

brodifacoum : Brodifacoum has high potential to bioaccumulate.

### 12.4 Mobility in soil

brodifacoum : Brodifacoum has low mobility in soil.

### 12.5 Results of PBT and vPvB assessment

brodifacoum : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### 12.6 Other adverse effects

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None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dilute the excess diluted product approximately 10 times and spray onto already treated land, according to the instructions for use.  
In order to avoid any surplus after the application, try to calculate as accurate as possible, the quantity to be applied, according to the surface to be treated and of the flow per hectare.
- Contaminated packaging** : Carefully rinse empty packaging with water, either by using the sprayer rinsing system, or by a manual rinsing consisting of three successive energetic agitations. Add rinse water to spray tank.  
Rinsed packaging must be collected and stored in a secure place, then brought to the designated collection points (AgriRecover).  
Do not re-use empty containers.  
Dispose of as special waste in compliance with local and national regulations.

### SECTION 14: TRANSPORT INFORMATION

#### Land transport (ADR/RID)

Not dangerous goods

- |                                  |                |
|----------------------------------|----------------|
| 14.1 UN number:                  | Not applicable |
| 14.2 UN proper shipping name:    | Not applicable |
| 14.3 Transport hazard class(es): | Not applicable |
| 14.4 Packing group:              | Not applicable |
| 14.5 Environmental hazards       | Not applicable |

#### Sea transport (IMDG)

Not dangerous goods

- |                                  |                |
|----------------------------------|----------------|
| 14.1 UN number:                  | Not applicable |
| 14.2 UN proper shipping name:    | Not applicable |
| 14.3 Transport hazard class(es): | Not applicable |
| 14.4 Packing group:              | Not applicable |
| 14.5 Environmental hazards       | Not applicable |

#### Air transport (IATA-DGR)

Not dangerous goods

- |                                  |                |
|----------------------------------|----------------|
| 14.1 UN number:                  | Not applicable |
| 14.2 UN proper shipping name:    | Not applicable |
| 14.3 Transport hazard class(es): | Not applicable |
| 14.4 Packing group:              | Not applicable |

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**14.6 Special precautions for user**

none

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**Not applicable

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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Hazardous components which must be listed on the label:

**15.2 Chemical Safety Assessment**A Chemical Safety Assessment is not required for this substance.

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**SECTION 16: OTHER INFORMATION****Further information**

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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L1023469 UAEM/10U PPE 4070548



®ND LOGO/NAME  
Klerat Rodenticide block

syngenta.

**Restricted Use Pesticide**

For retail sale to use only by certified applicators or persons  
under their direct supervision

**المبيد مقيد الاستخدام**

لبيعه و لإستخدامه فقط من قبل فنيين مرخصين أو تحت اشرافهم الفني المباشر

**Manufacturing:** Syngenta Crop Protection

**Country of Origin:** Hungary

**Local Distributor:** Al Mubarak Agro-Chemicals

P.O.Box 13365, Tel: 04-2237891

الشركة المصنعة: سينجنتا لوقاية المزروعات - بلد المنشأ: المجر

الشركة المستوردة: المبارك للكيماويات الزراعية

ص.ب ١٣٣٦٥ - دبي - الإمارات، تليفون: ٠٤-٢٢٣٧٨٩١

5 Kg ه كجم

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**كليرات® مبيد قوارض مكعبات**

Public health pesticide for the control  
of Rodents

Ready for use Blocks

مبيد صحة عامة لمكافحة القوارض

مكعبات جاهزة للاستخدام



**Caution: KEEP OUT OF REACH OF CHILDREN**

تحذير: يحفظ بعيداً عن متناول الأطفال

**MOCCAE Registration number**

رقم تسجيل المبيد بوزارة التغير المناخي والبيئة

**DXB-AD-140-1704**

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