

**MATERIAL SAFETY DATA SHEET**  
Emergency contact number: +27 11 365-8639



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**1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION**

Commercial name: **BLATTANEX® EC**

Company identification: Bayer (Pty.) Ltd.  
Reg. No. 1968/011192/07  
P.O. Box 143, Isando, 1600  
SOUTH AFRICA

Company contact numbers: +27 11 365 8600  
+27 11 921 5911

Tygerberg Poison Centre: +27 21 931 6129

**2) COMPOSITION / INFORMATION ON THE INGREDIENTS**

Hazardous Components:  
Propoxur 200 g/l. CAS No.: 114-26-1. Hazard symbol: T  
Index No: 006-016-00-4. R-phrases:25, R50/53.  
Chemical name: Propoxur  
Chemical family: Carbamate

Benzyl alcohol. CAS No.: 100-51-6. Hazard symbol: Xn  
Risk-phrases: R20/22

**3) HAZARD IDENTIFICATION OF THE PRODUCT**

Harmful by inhalation and if swallowed.  
Irritating to eyes and skin.  
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. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove soiled or soaked clothing immediately.

Skin contact: Immediately remove contaminated clothing, including shoes. Wash affected area with plenty of water and soap. SPEED IN REMOVING LIQUID FROM SKIN IS OF PRIME IMPORTANCE. Take medical treatment.

Eye contact: Flush eyes with water for 15 minutes. Hold eyelids open while washing. Consult an eye specialist.

Ingestion: Do not induce vomiting. Wash out mouth with water. Call doctor immediately.

Inhalation: Move patient to fresh air and keep at rest. Call doctor immediately.

NOTE TO PHYSICIAN:  
The active ingredient in this product is a carbamate poison.

Symptoms of poisoning: Local: Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes.  
Systemic: Sweating, salivation, flushing, dizziness, abdominal pain, discomfort in the chest, muscle twitching, convulsions, respiratory failure, nausea, headache, vomiting, diarrhea, hypotensive effect, blurred vision.

Treatment: Monitoring of respiratory, cardiac and central nervous system.  
Monitoring of the blood picture.  
Observe specific parameters: red blood cell and plasma cholinesterase.  
ECG – monitoring (Electrodiagram)  
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.  
Keep airway clear, administer artificial respiration if necessary.  
Against convulsions; Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.  
Treatment for adults: for all cases a high dose of atropine (2 to 4 mg) repeated every 10 to 15 minutes as needed.  
Contraindications: oximes (pralidoxime, oblidoxime), succinyl choline, aminophylline.

**5) FIRE FIGHTING MEASURES**

Extinguishing media: Water spray, foam, CO<sub>2</sub>, sand.

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Fight fire in early stages if safe to do so.

Do not breathe fumes. Wear respiratory protection.

Well ventilated areas: Full face mask with combination filter.

Enclosed premises: Respirator with independent air supply.

Contain fire-fighting water and do not allow run-off from fire fighting to enter drains or water courses.

In the event of fire the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, methyl isocyanate and nitrogen oxides must be anticipated.

#### 6) ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled product or contaminated surfaces. Use the personal protective equipment listed in Section 8. Unprotected persons must be kept away.

Prevent entry into drains, waters or soil.

Take up spilled product with absorbent material (e.g. sand, earth or a proprietary absorbent material). Fill materials taken up into sealable container. Clean the floor and all objects contaminated by this material thoroughly by using a damp cloth. Also place used cleaning materials into sealable receptacles.

See Section 13 for information regarding waste disposal.

#### 7) HANDLING AND STORAGE

Information on safe handling: Use only in area provided with appropriate exhaust ventilation.

Information on storage: Keep containers tightly closed in a dry, cool and well ventilated place.  
Store in original container.  
Store in a place accessible by authorized persons only.  
Keep away from food, drink and animal feedingstuffs.  
Store at 0-40 °C.  
Use only containers that are approved specifically for the substance/product.

#### 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protection: If product is handled while not enclosed, and if skin contact may occur:  
Respiratory protection: Full mask with multi-range filter ABEK/P2.  
Hand protection: Solvent-resistant gloves.

Hygiene measures: Avoid contact with skin, eyes and clothing.  
Keep working clothes separately.  
Wash hands before breaks and at end of workday.  
Remove soiled or soaked clothing immediately and clean thoroughly before using again.  
Garments that cannot be cleaned must be destroyed.

#### 9) PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid, clear

Colour: Slightly yellowish

Odour: Aromatic

Crystallization point: < -60° C DIN ISO 3016

Initial boiling point: 91° C at 1.013 hPa

Vapour pressure: 3 kPa at 20° C, 13 kPa at 50° C, 85 kPa at 55° C

Density: Approx. 1,049 g/cm<sup>3</sup> at 20° C

Solubility in water: Emulsifiable

Water-miscibility to VbF S 3(l): No

Partition coefficient: log P octanol/water propoxur: 1,56

Viscosity: 39,7 sec. Discharge time at 20° C ISO 2431 (corresponds to 12,5 m<sup>2</sup>/s)

Flash point: 63° C

Autoignition temperature: 415° C



#### 10) STABILITY AND REACTIVITY

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

#### 11) TOXICOLOGICAL INFORMATION

Acute toxicity:

LD<sub>50</sub> oral, rat: approx. 250 mg/kg (Bayer) <sup>(1)</sup>

LD<sub>50</sub> dermal, rat: > 5000 mg/kg (Bayer) <sup>(1)</sup>

Irritation of the skin/rabbit: slightly irritant (Bayer) <sup>(2)</sup>

Eye irritant, rabbit: moderately irritant (Bayer) <sup>(2)</sup>

<sup>(1)</sup> derived from active ingredient data

<sup>(2)</sup> derived from the constituent substances

#### 12) ECOLOGICAL INFORMATION

Ecological information:

Fish toxicity: (active ingredient)

LC<sub>50</sub>: 12 ppm (96 h); Golden orfe (*Leuciscus idus*) (Bayer)

LC<sub>50</sub>: 4-14 ppm (96 h); Rainbow Trout (*Salmo gairdneri*) (Bayer)

LC<sub>50</sub>: 6,6 ppm (96 h); (*Lepomis macrochirus*) (Bayer)

LC<sub>50</sub>: 10-40 ppm (48 h); Illy fish (*Orizias latipes*) (Bayer)

LC<sub>50</sub>: 10-40 ppm (48 h); Carp (*Cyprinus carpio*) (Bayer)

Toxicity for *Daphnia*: (active ingredient)

EC<sub>50</sub>: 0,15 mg/l (48 h); Water flea (*Daphnia magna*) (Bayer)

Toxicity for algae: (active ingredient)

Increase of the biomass: EC<sub>50</sub>: 5,3 mg/l (96 h), Green algae (*Scenedesmus subspicatus*) (Bayer)

Growth rate: EC<sub>50</sub>: 43,0 mg/l (96 h), Green algae (*Scenedesmus subspicatus*) (Bayer)

#### 13) DISPOSAL CONSIDERATIONS

Product: Package product wastes. Close and label the waste receptacles and, like-wise, any uncleaned empty containers. Dispose of them at a suitable waste disposal plant in accordance with the official regulations. Where large quantities are concerned, consult the manufacturer.

Packaging: Triple rinse the container, then perforate and bury it.

#### 14) TRANSPORT INFORMATION

UN No: 2992

Class: 6.1

IMDG: 6193

Ems: 6.1-02

MFAG: 505

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 2992 CARBAMATE PESTICIDE , LIQUID , TOXIC

Declaration for sea shipment: 2992 CARBAMATE PESTICIDE , LIQUID , TOXIC

Declaration for shipment by air: 2992 CARBAMATE PESTICIDE , LIQUID , TOXIC

#### 15) REGULATORY INFORMATION

Risk phrases: R 10, 23/24/25, 51, 55, 57

Safety phrases: S 1/2, 3, 13, 15, 20/21

WHO Classification: Ib (highly hazardous)

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**16) OTHER INFORMATION**

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Consult the label for directions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE  
USES HEREIN STATED.

The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.  
If the logo in this document is not in colour, this document is a photocopy and could be out of date.

Bayer Environmental Science



Before using this product read the label carefully. / Lees die etiket noukeurig alvorens die produk gebruik word.

## BLATTANEX<sup>®</sup> EC

Reg. No. L0062 Act No. 36 of 1947  
Namibian Reg. No. N-AR 0647

Reg. Nr. L0062 Wet Nr. 36 van 1947  
Namibiese Reg. Nr. N-AR 0647

FOR SALE TO AND USE BY REGISTERED  
PEST CONTROL OPERATORS ONLY

SLEGS VIR VERKOOP AAN EN GEBRUIK  
DEUR GEREISTREERDE PLAAGBEHEER-  
OPERATEURS

A RESIDUAL CONTACT AND STOMACH  
INSECTICIDE WITH FLUSHING AND  
KNOCKDOWN ACTION FOR THE  
CONTROL OF COCKROACHES, FLEAS,  
ANTS, CRICKETS, FISHMOTHS AND  
HOUSE FLIES

'N NAWERKENDE KONTAK- EN MAAG  
INSEKDODER MET UITDRYF- EN  
UITKLOPAKSIE VIR DIE BEHEER VAN  
KAKKERLAKKE, VLOOIE, MIERE, KRIEKE,  
VISMOTTE EN HUISVLIEË

### ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

Propoxur (carbamate)

200 g/l

Propoksur (karbamaat)

NET CONTENTS: / NETTO INHOUD: 5 l

### REGISTRATION HOLDER / REGISTRASIEHOUER:

Bayer (Pty.) Ltd. / (Edms.) Bpk.  
Reg. No. / Nr. 1968/011192/07  
P.O. Box / Posbus 143  
ISANDO 1600  
SOUTH AFRICA / SUID-AFRIKA  
TEL: (011) 921 5911

Batch no: / Lotnommer:

Date of manufacture: / Datum vervaardig:

BLATTANEX<sup>®</sup> is a registered trademark of Bayer / is 'n geregistreerde handelsmerk van Bayer.

UN NO./ VN NR. 2992



TOXIC  
GIFTIG



### **WARNINGS:**

Handle with extreme care.

Poisonous by inhalation, contact and swallowing.

Toxic to bees, fish and wildlife.

Keep out of reach of children, animals and uninformed persons.

Store under lock and key away from food and fodder in a safe place away from heat but not under 0°C.

Keep away from direct sunlight.

FLAMMABLE – keep away from open flames.

### **PRECAUTIONS:**

Do not breathe fumes or spray mist.

Wash clothing after a days' work.

Wash immediately with soap and hot water after accidental skin contact.

Do not eat, drink or smoke whilst applying, mixing or before washing hands and face.

Prevent contamination of foodstuffs, food utensils and drinking water.

Clean applicator after use.

Triple rinse the empty container by inverting it over the spray or mixing tank and allowing to drain for at least 30 seconds after the flow has slowed to a drip.

Thereafter rinse the container three times with a volume of water equal to a minimum of 10 % of that of the container. Add rinsing water to the contents of the spray tank before destroying the container. Destroy empty container by perforation and flattening and do not re-use for any other purpose.

Do not walk across treated areas until the application has dried thoroughly.

Remove pets and cover or remove aquaria.

### **RESTRICTIONS:**

Do not apply Blattanex® Emulsion sprays to rugs, carpets, draperies, wall paper or similar materials that may be stained or watermarked, unless it has proven safe on such materials.

Do not use as a space spray.

Provide adequate ventilation of the area being treated.

Do not apply to plants, animals or humans.

Do not apply to surfaces where food is handled.

### **SYMPTOMS OF HUMAN POISONING:**

Sweating, salivation, dizziness, abdominal pain, discomfort in the chest, muscle twitching, convulsions, respiratory failure, nausea, headache, vomiting, diarrhoea, hypotensive effect, blurred vision.

### **FIRST-AID TREATMENT:**

Remove patient from source of poisoning to a well-ventilated area and keep him quiet and reassured.

Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and water. After eye contact, flush contamination out of eyes with clean water and call a doctor. If swallowed do not induce vomiting. Wash out mouth with water and call a doctor immediately.

### **NOTE TO PHYSICIAN:**

Monitor respiratory, cardiac and central nervous system. Observe red blood cell and plasma cholinesterase. Give artificial respiration if necessary. Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.

### **DIRECTIONS FOR USE:** USE ONLY AS DIRECTED.

Recommended for use in dwelling houses, hospitals, barracks, compounds, workshops, industrial premises, factories, ships and stables. **Blattanex® EC** provides a good flushing action, rapid knockdown

and long residual control. **Blattanex® EC** is easily miscible with water and may be applied with most hand and power operated sprayers. **Blattanex® EC** may be applied to most surfaces such as glass, wood, painted wood, plastic tiles, varnish, clay, loam, etc. (see restrictions), although it is primarily intended for use on non-absorbent surfaces.

PEST	DOSAGE	REMARKS
Cockroaches, ants, fleas, fishmoths and crickets	500 mℓ / 10 litres water. On surfaces with alkaline reactions (e.g. whitewashed walls) and porous surfaces use 700 mℓ / 10 litres water.	Apply to the point of run-off as a residual spray or with a paint brush, to skirting boards, cracks and other places where insects may hide. Also spray to adjacent exposed surfaces where insects may crawl when they come out of hiding. Repeat if necessary.
House flies	500 mℓ / 10 litres water. On surfaces with alkaline reactions (e.g. whitewashed walls) and porous surfaces use 700 ml / 10 litres water.	Apply to the point of run-off as a residual spray or with a paint brush to exposed surfaces of buildings, screen doors, window frames, and other places frequented by flies. Repeat as required. Attractiveness to flies may be improved by adding 500 g of sugar per 10 litres of spraymix.

**IMPORTANT:**

Mixing of **Blattanex® EC** with required quantities of water should be carried out on the spot of application. On no account should the prepared solution be left overnight in mixing vessels and spraying equipment, as this will result in clogging of the nozzles. After application, spray equipment should be thoroughly rinsed with water.

Do not use **Blattanex® EC** in fibre-glass tanks.

For any product enquiry, contact Bayer Environmental Science - 011 921 5911. For poisoning emergencies only, Griffon Poison Information Centre may also be contacted - 082 446 8946.

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## **WAARSKUWINGS:**

Hanteer uiters versigtig. Giftig indien ingeneem, ingesam of deur die vel geabsorbeer.

Giftig vir bye, visse en wild.

Hou buite die bereik van kinders, diere en oningeligte persone.

Bewaar agter slot en grendel weg van voedsel en voer, in 'n veilige plek weg van hitte, maar waar dit nie kouer as 0°C word nie.

Hou weg van direkte sonlig.

VLAMBAAR – hou weg van oop vlamme.

## **VOORSORGMAATREËLS:**

Vermyn die inasem van dampe of spuitnewel.

Was die besoedelde klere na afloop van die dag se werk.

Was onmiddellik met seep en warm water na toevallige velkontak.

Moet nie eet, drink of rook tydens vermenging en toediening, of voordat die hande en gesig gewas is nie.

Voorkom besoedeling van voedsel, eetgerei en drinkwater.

Maak spuitapparaat skoon na gebruik.

Spoel die leë houer drie keer uit deur dit oor die spuittenk of mengbak om te keer en toe te laat om vir minstens 30 sekondes te dreineer nadat die vloei tot 'n drup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word.

Vernietig die leë houer deur dit te perforeer en plat te druk. Moet dit nie vir enige ander doel gebruik nie.

Moenie oor behandelde areas loop voor die behandeling deeglik droog geword het nie.

Verwyder troeteldiere en bedek of verwyder akwarie.

## **BEPERKINGS:**

**Blattanex<sup>®</sup> Emulsie** moet nie op matte, tapyte, behangsels, muurpapier of soort gelyke stowwe wat moontlik kan vlek of watermerke kan maak, gespuit word, tensy dit as veilig op sulke stowwe bewys is nie.

Moet nie gebruik as 'n ruimtebespuiting nie.

Voorsien genoegsame ventilasie van die area wat behandel word.

Moet nie op plante, diere of mense spuit nie.

Moet nie op oppervlakke waar voedsel hanteer word, toedien nie.

## **SIMPTOME VAN VERGIFTIGING**

Sweet, kwyling, duiseligheid, maagpyn, ongemak in die bors, spiertrekking, stuiptrekkings, asemhalingsgebrek, naarheid, hoofpyn, braking, diarree, hipotensiewe effek, belemmerde sig.

## **EERSTEHULP BEHANDELING**

Verwyder pasiënt van die bron van vergiftiging na 'n goed geventileerde omgewing en hou hom kalm en gerusgestel. Verwyder besoedelde klere en spoel die besmette liggaamsdele deeglik met baie seep en koue water af. Na oogkontak, spoel besmette oë uit met skoon water en kontak 'n geneesheer. Indien ingesluk, moenie braking induseer nie. Spoel mond met water uit en kontak 'n geneesheer onmiddellik.

## **NOTA AAN GENEESHEER**

Monitor respiratoriese, kardiële en sentrale senuwee sisteem. Neem rooibloedsel en plasma cholinesterase waar. Pas kunsmatige asemhaling toe indien nodig. Endotracheale intubasie en maagspoeling moet uitgevoer word, gevolg deur die toediening van houtsuiker.

## **GEBRUIKSAANWYSINGS:** GEBRUIK SLEGS SOOS AANGEDUI.

**Blattanex<sup>®</sup> EC** word aanbeveel vir gebruik in woonhuise, hospitale, barakke, kampe, werkswinkels, nywerheidspersone, fabriek, skepe en stalle. Dit het 'n uitstekende uitdryingseffek, vinnige uitklopvermoë en 'n lang nawerking. **Blattanex<sup>®</sup> EC** meng maklik met water en kan met die meeste hand- of kragaangedrewe sprute toegedien word.



Dit kan op feitlik alle oppervlakke soos byvoorbeeld glas, hout, geverfde hout, plastiese teëls, vernis, klei, leem, ens. gespuit word (sien beperkings), alhoewel dit hoofsaaklik bedoel is vir gebruik op nie-absorberende oppervlakke.

PLAAG	TOEDIENING	OPMERKINGS
Kakkerlakke, miere, vlooië, vismotte en krieke	500 mℓ / 10 liter water. Op oppervlakke met 'n alkaliese reaksie (bv. afgewitte mure) en porieuse oppervlakke gebruik 700 mℓ / 10 liter water.	Dien toe met 'n verfkwas of as 'n residuele bespuiting tot afloop, op vloerlyste, krake, barste en ander plekke waar insekte moontlik skuil. Dien ook op nabygeleë oppervlakke toe waar insekte uitskuilings kom. Herhaal indien nodig.
Huisvlieë	500 mℓ / 10 liter water. Op oppervlakke met 'n alkaliese reaksie (bv. afgewitte mure) en porieuse oppervlakke gebruik 700 mℓ / 10 liter water.	Dien toe met 'n verfkwas of as 'n residuele bespuiting tot afloop, op blootgestelde oppervlakke van geboue, gaasdeure, vensterrame en ander plekke waar vlieë dikwels sit. Herhaal soos nodig. Om dit meer aantreklik vir vlieë te maak, kan 500 g suiker per 10 liter spuitmengsel gevoeg word.

#### **BELANGRIK:**

Meng **Blattanex® EC** met die nodige hoeveelheid water op die plek van toediening. Die aangemaakte mengsel moet onder geen omstandighede oornag in die houers waarin dit aangemaak is, of in die spuit-toerusting gelaat word nie, want die spuitkoppe sal verstop raak. Die spuitapparaat moet na gebruik deeglik met water uitgespoel word.

Moet nie **Blattanex® EC** in veselglas tenks gebruik nie.

Vir enige produk navrae, skakel Bayer Environmental Science - 011 921 5911. Slegs vir vergiftigingsnoodgevalle kan Griffon Gif Inligtingsentrum ook gekontak word - 082 446 8946.

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