

**BASF**

We create chemistry

# Rex<sup>®</sup> Duo 497 SC

Suspension Concentrate  
FUNGICIDE (KIUKUVU)

**GUARANTEE (DHAMANA):**  
Thiophanate methyl 310 g/l  
Epoxiconazole 187 g/l

**COMMERCIAL AND AGRICULTURAL CLASS**  
(KUNDI LA KILIMO NA BIASHARA)

A suspension concentrate, protectant  
and systemic fungicide for the control of  
yellow rust and stem rust in wheat.

(Kiuakuvu kinachopenya kwa mmea  
kinachozuia magonjwa ya kutu ("yellow  
rust" na "stem rust") kwenye ngano.)

**Shelf life:** Two years from the date of  
manufacture in tightly sealed original  
unopened container under cool and dry  
storage conditions.

(Maisha Rafuni: Miaka miwili kutoka tarehe  
ya kutengenezwa ikiwa katika chombo chake  
maalum isipofunguliwa na ikiwekwa katika  
pahari pakavu pasipo na joto jingi.)

In case of poisoning call Toll Free number  
0800720021/0800730030 (24Hrs).  
(Wakati wa madhara piga nambari  
bila malipo 0800720021/0800730030  
(Masaa 24).)

**5L**

Net Content (Kipimo Kamili):

**WHO Class II: Moderately Hazardous**



**HARMFUL**  
(HUDHURU)



**READ THE LABEL  
BEFORE USING**  
(SOMA KIBANDIKO  
CHA MAELEZO  
KABLA YA  
KUTUMIA)

**KEEP LOCKED  
OUT OF REACH OF  
CHILDREN**  
(WEKA MBALI NA  
WATOTO)

**REGISTRATION NO. (NAMBARI YA  
USAJILI): PCPB (CR) 1537**

**REGISTRANT / MANUFACTURER**  
(MSAJILI / MTENGENEZAJI):  
BASF SE, GERMANY

**AGENT (AJENTI):**  
BASF EAST AFRICA LIMITED  
P.O. BOX 24271-00100  
NAIROBI  
TELEPHONE: + 254 20 4443454  
Email: info.eastafrica@basf.com

**MANUFACTURING DATE: SEE ANOTHER  
PLACE ON THE LABEL OR PACKAGING**  
(TAREHE YA KUTENGENEZWA):  
(MAELEZO YAPO KWINGINE KWENYE  
KIBANDIKO HIKI)

**BATCH NUMBER: SEE ANOTHER PLACE  
ON THE LABEL OR PACKAGING**  
(NAMBARI YA FURUSHI): (MAELEZO  
YAPO KWINGINE KWENYE KIBANDIKO  
HIKI)

**EXPIRY DATE: SEE ANOTHER PLACE ON  
THE LABEL OR PACKAGING**  
(TUMIA KABLA YA): (MAELEZO YAPO  
KWINGINE KWENYE KIBANDIKO HIKI)



Protect to Provide

Membership Number: AAK/220  
Nambari ya Usachama:

® = Registered trademark of BASF (Alama ya biashara iliyosajiliwa ya BASF)

81 138534 KE 1119



## Rex® Duo 497 SC

### DIRECTIONS FOR USE:

A protectant and systemic fungicide for the control of yellow rust and stem rust in wheat.

### MODE OF ACTION:

Epoxiconazole acts blocking the sterol biosynthesis in membranes and, the thiophanate-methyl inhibits the mitosis and cell division, both fundamental for the fungi cell growth. This two different mode of action, make it an important tool for the resistance management.

### MIXING INSTRUCTIONS:

Half fill the spray tank with clean water and start agitation. Shake the product well before opening, measure the required amount of Rex® Duo 497 SC and add into the spray tank. Fill the tank with clean water and continue agitation or recirculation. Continue agitation during spraying.

### APPLICATION TIMING

Rex® Duo 497 SC provides optimal disease control when applied in a regularly scheduled preventive fungicide program when conditions favour disease development. Rex® Duo 497 SC should be used in a spray program that rotates fungicides with different modes of action. It should be sprayed preventatively or latest at first signs of disease infection.

### RATE OF APPLICATION/SPRAY INTERVAL

Crop	Disease	Rate	Remarks
Wheat	Yellow Rust ( <i>Puccinia striiformis</i> )	0.5 L/ha or 50 ml/20 L of water	Apply preventatively or latest as soon as infection is noticed and repeat at 3-4 weeks later depending on disease pressure and re-incidence.  <b>Ground Application:</b> Apply in 200-400 L water per Ha.
	Stem Rust ( <i>Puccinia graminis</i> )	0.5-0.75 L/ha 0.5L/ha or 50 ml/20 L of water (applied as a preventative before disease sets in) 0.75L/ha or 75 ml/20 L of water (preventative when weather show signs that there will be high disease infection expected)	

**NOTE:** DO NOT use any additional wetters, spreaders or other adjuvants as Rex® Duo 497 SC has already been formulated with optimised amounts of surfactants.

**PHI:** 42 days

**RE-ENTRY INTERVAL:** As soon as spray dries

#### **RESISTANCE MANAGEMENT:**

Rex® Duo 497 SC should be used in accordance with the instructions for use for the target diseases at the indicated conditions. Use Rex® Duo 497 SC as part of an Integrated Crop Management strategy incorporating other methods of control.

You must not apply more than two foliar applications of Rex® Duo 497 SC and products containing the same mode of action or belonging to the same FRAC group to any cereal crop.

FOR SPECIFIC INFORMATION ON RESISTANCE MANAGEMENT, CONTACT THE REGISTRATION HOLDER, BASF EAST AFRICA LTD.

#### **SAFETY PRECAUTIONS:**

Wear suitable protective clothing (coveralls) and suitable protective gloves when handling the concentrate or contaminated surfaces. Wear safety glasses and body protection garments. Wash hands and/or face before breaks and at the end of the shift. Do not eat drink, or smoke when handling this product. Prevent spray drift onto other crops, grazing, rivers and dams.

#### **STORAGE:**

Keep away from food, drink and animal feeds. Keep out of reach of children  
Do not re-use container for any other purpose. Store in original container tightly closed, in a safe place. Keep away from heat. Protect against moisture and protect from direct sunlight. Protect from temperatures below -5°C and above 35°C.

#### **WASTE DISPOSAL:**

On emptying the container, triple rinse thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling. Perforate or puncture holes on empty containers and dispose off in accordance with National legislation and Regulation. DO NOT RE-USE empty containers for any other purpose.

#### **LEAK AND SPILLS:**

Wear protective clothing as outlined above. Sweep up with spill control material or suitable absorbent material e.g. sand, sawdust or general purpose binder. Clean contaminated floors and objects thoroughly with water and detergents.

#### **ENVIRONMENTAL HAZARDS:**

Very toxic to aquatic life, with long lasting effects. Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

#### FIRST AID MEASURES:

**General advice:** Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. If difficulties occur in breathing, obtain medical attention. Show container, label and /or safety data sheet to physician.

**If Inhaled:** Keep patient calm, remove to fresh air and seek medical attention.

**Skin contact:** After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**Eye contact:** Immediately wash affected eyes for at least 15 minutes under running water, with eyelids open. Consult an eye specialist.

**Ingestion:** Do not induce vomiting unless told to by a poison control center or doctor. Rinse mouth and then drink plenty of water.

#### TAKE PATIENT TO DOCTOR.

#### TOXICOLOGICAL INFORMATION:

**Signs and Symptoms of Poisoning:** Harmful by inhalation and if swallowed. Suspected of causing cancer. Suspected of causing genetic defects. Suspected of damaging fertility. Suspected of damaging the unborn child.

**Antidote:** no specific antidote. Treat symptomatically.

**Note to physician:** Treat according to symptoms (decontamination, vital functions).

**In case of poisoning call Toll Free number 0800720021/0800730030 (24Hrs).**

#### NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe conditions.

#### WARRANTY:

Seller's guarantee is limited to the terms set out on the label and subject there, to the buyer who assumes the risks to persons or property arising from the use or handling of this product and accepts the product on that condition.

## Rex® Duo 497 SC

### MAPENDEKEZO YA UTUMIAJI:

Kiuakuvu kinachopenya kwenye mmea cha kuzuia magonjwa ya kutu ,yellow rust' na ,stem rust' kwenye ngano.

### JINSI INAVYOFANYA KAZI

Epoxiconazole hutenda kazi kwa kuzuia biosynthesis ya sterol katika membranes na, thiophanate-methyl inazuia mitosis na mgawanyiko wa seli, ambayo ni muhimu kwa ukuaji wa seli za fungii. Mfumo huu wa vitendo tofauti, unaweza kuzuia uzoefu wa kuvu.

### MAELEZO YA KUCHANGANYA:

Jaza tanki la kunyunyizia na maji safi hadi nusu. Tingiza dawa vizuri kabla ya kuifungua kisha upime kiasi cha Rex® Duo 497 SC kinachohitajika na uongeze kwenye tanki la kunyunyizia. Jaza tanki hilo na maji safi na uendeleo kuchanganya na kutikisa. Endelea kukoroga vizuri unaponyunyizia.

### WAKATI WA KUNYUNYIZIA:

Rex® Duo 497 SC inafaa zaidi ikitumiwa kabla ya au mwisho wakati dalili za ugonjwa zinaonekana kushika ngano. Unahimizwa kubadilisha dawa hii na dawa za vikundi vingine kuzuia uzoefu kwenye mmea.

### KIPIMO CHA KUTUMIA/MUDA WA KURUDIA

Mmea	Ugonjwa	Kiasi cha kutumia	Maelezo zaidi
Ngano	Yellow Rust ( <i>Puccinia striiformis</i> )	Lita 0.5/hekta Au Mililita 50/Lita 20 za maji	Nyunyiza dawa kuzuia ama mwisho punde tu ugonjwa uonekanapo. Rudia kila baada ya wiki 3-4 kulingana na dalili za ugonjwa kushika. <b>Ukitumia trekta kunyunyizia:</b> Tumia lita 200-400 za maji kwa hekta.
	Stem Rust ( <i>Puccinia graminis</i> )	Lita 0.5-0.75 /hekta Lita 0.5/hekta au mililita 50 /Lita 20 za maji (Nyunyiza dawa kuzuia ugonjwa kabla haijaonekana kwa mmea) Lita 0.75/Hekta au mililita 75 /Lita 20 za maji (Nyunyiza dawa kuzuia wakati hali ya hewa inaonyesha ishara kwamba kutakuwa na maambukizi ya ugonjwa wa hali ya juu)	

**FAHAMU:** Usitumie kemikali yenye usaidizi wa kushikisha dawa kwenye matawi kwani Rex® Duo 497 SC tayari imeundwa na vishikanishi ndani yake.

**MUDA SALAMA WA KUNGOJA KABLA KUVUNA:** Siku 42

**MUDA SALAMA WA KUINGIA BAADA YA KUNYUNYIZIA KIUAKUVU:** Kiuakuvu kinapokauka

**KUZUIA UZOEFU WA KUVU:**

Rex® Duo 497 SC itumike kwa mujibu wa maelekezo kwa ajili ya matumizi kwa magonjwa lengo katika hali unaohitajika. Tumia Rex® Duo 497 SC kama sehemu ya 'Integrated Crop Management' huku ukitumia njia nyingine ya kudhibiti. Usinyunyize Rex® Duo 497 SC zaidi ya mara mbili kwa mfululizo na pia na dawa zilizo katika kikundi kimoja cha Rex® Duo 497 SC.

KWA MAELEZO MAALUM KUHUSU UVUMILIVU WA MMEA, WASILIANA NA WASAJILI, BASF EAST AFRICA LTD

**TAHADHARI KWA MTUMIAJI:**

Jikinge na hali yoyote kushika dawa hii. Usile, usinywe wala usivute sigara unapotumia dawa hii. Unapotumia dawa ya Rex® Duo 497 SC linda macho ukitumia miwani iliyoupendekezwa, vaa nguo za kujikinga kama vile glavu na ovaroli. Osha mikono na ngozi iliyouwagikiwa kabla ya kula, kunywa, kuvuta sigara ama kwenda kwa haja. Oga mwili na sabuni na maji mengi baada ya kazi na ufue nguo za kujikinga na madhara ya dawa kabla ya kuzitumia tena.

**KUHIFADHI:**

Hifadhi dawa ndani ya pakiti yake halisi mahali ambapo ni salama, kavu, na hakuna joto nyingi, penye hewa nyingi na ni mbali na chakula na watoto hawawezi kufikia. Hifadhi mahali palipo na joto isiyochini ya nyuzi -5 au zaidi ya nyuzi 35.

**KUTUPA MABAKI:**

Osha chombo cha dawa mara tatu na umwage ule mwosho kwenye tanki la kunyunyizia. Haribu chombo cha dawa kwa kutoboa mashimo baada ya kuitumia dawa yote iliyou halafu itupe mahali pazuri mbali na mto kuambatana na sheria zilizoko kwenye nchi. USITUMIE KWA MATUMIZI INGINE.

**DAWA IKIMWAGIKA:**

Jikinge na nguo na vifaa vya kuzuia madhara ya dawa. Panguza dawa iliyouwagika na mchanga au vumbi inayopatikana wakati mbaao inapopasuliwa (sawdust). Osha mahali au vifaa vilivyomwagikiwa na dawa kwa maji mengi na sabuni.

**HADHARI KWA MAZINGIRA:**

Ina madhara kwa samaki na viumbe vingine vinavyoishi kwenye maji. Usichafue vidimbwi vya maji kwa dawa hii au mabaki yake. Usioshe vyombo vilivyotumika karibu na mito. Usimwage mabaki kwenye nyumba za wanyama au barabara.

#### **HUDUMA YA KWANZA:**

**Mashauri:** Hakikisha dawa isimwagikie ngozi, macho na mavazi. Vua mavazi yenye dawa mara moja. Ukihisi hali mbaya ya afya utumiapo dawa hii, tafadhali muone daktari na umuonyeshe kibandiko cha dawa hii.

**Ikiwa imeingizwa:** Weka mgonjwa atulie, mukee kwenye hewa safi na utafute matibabu.

**Kushikwa kwa Ngozi:** Baada ya kuguswa na dawa kwa ngozi. Osha kwa maji mengi na sabuni. Kuwashwa kwa ngozi kukitokea, pata ushauri wa matibabu.

**Kushikwa kwa Macho:** Osha macho yaliyoathiriwa kwa muda wa dakika 15 chini ya maji ya kukimbia na kope la jicho likifunguliwa wazi. Wasiliana na mtaalamu wa jicho.

**Kumeza:** Usiruhusu kutapika isipokuwa kama umeambiwa na kituo cha udhibiti wa sumu au daktari. Suuzi mdomo na kisha kunywa maji mengi.

#### **PELEKA MJERUHI KWA DAKTARI.**

#### **MAELEZO KUHUSU SUMU:**

**Dalili za kusumika:** Yaweza sababisha madhara ikimezwa na kuvutwa. Kunaweza kuharibu uzazi au mtoto tumboni. Kuna ushahidi mdogo kwa athari ya kansa.

**Kiuasumu:** Hakuna tiba ijulikanayo kwa sasa

**Maagizo kwa daktari:** Tibu mgonjwa kulingana na dalili za ugonjwa.

**Wakati wa madhara piga nambari bila malipo 0800720021/0800730030 (Masaa 24).**

#### **ILANI KWA WATUMIAJI:**

Dawa hii sharti itumiwe kulingana na maagizo kwenye kibandiko hiki tu. Ni hatia chini ya Sheria za madawa ya kuangamiza wadudu waharibifu kutumia au kuweka dawa hii mahala pasipo usalama.

#### **THIBITISHO:**

Dhamana ya Muuzaji ni maelezo yaliyo kwenye kibandiko ambayo ni lazima yafuatwe kikamilifu. Mnunuzi lazima akubali hatari zozote zinaweza kutokana na matumizi ya dawa hii kwa binadamu au mali na lazima aikubali dawa hii katika hali hiyo.