

GENERAL INFORMATION

CELPHOS is a phosphine generating pesticide which controls all types of Insect pest, mites and rodents that attack stored food grains and packed commodities. It is lethal to insect in every stage - egg, larva, pupa and adult since phosphine has a high rate of diffusion, it spreads evenly and rapidly to the most inaccessible corners and surfaces.

APPLICATION RATE

Dosage (application rate) of CELPHOS as well as exposure time required for pest control will depend on the pest to be controlled. Commonly temperature and humidity and can only be approximated as indicated below.

TYPE OF FUMIGATION AGAINST STORAGE PEST	DOSAGE	EXPOSURE
Bulk grain in silos, large bins and similar vertical storage	2-4 tablets (3g) per tonne	Long periods typical eg. 8-10 days
Bulk grain and raw commodities in flat storage i.e. in shallow bins, barges, ship bulkheads or in bags under gas-tight covers or enclosures	3-5 tablets (3g) per tonne	Minimum 120-1668 hrs at 10°C-15°C 96-120 hrs at 16°C-20°C, 70-96 hrs above 20°C
Space fumigation, of packed foods and feeds, non-food items stacked under gas tight covers or enclosures.	1-1.5 tablets (3 g) per cubic metre.	Minimum 160 hrs at 10°C-15°C 120 hrs at 16°C-20°C, 96 hrs as above 20°C
NOTE: leaf tobacco (in bales, cases, hogsheads	0.5-1.0 (Maximum) tablets (3g) per cubic metre	Longer periods eg. 8 days preferable.
Space fumigation of empty enclosures ego Flour mills, warehouses, shipping containers etc.	0.5-1.0 tablets (3g) per cubic metre	Minimum 120-160 hrs at 10°C-15°C, 96-120hrs at 16°C -20°C 72-96 hrs above 20°C
AGAINST BURROW PESTS		
Burrow fumigation	Insert 1 tablet (3g) deep into each hole and close opening with balls of wet paper or wet mud.	24 hrs (leave overnight)

REMARKS

Dosage: Each 3g tablet contains 1g phosphine if *Sitophilus* spp., *Trogoderma* spp., *Ephestia* spp. Are present, highest dosage in the range recommended above will be required and exposures longer than the minimum given above will be needed. In adverse conditions ego Considerable leakage, very high infestation, or when finely divided or dusty material is being fumigated, the lower dosage in the range above may be increased by a factor of 2, if necessary. If mites of dispasing larvae of *Trogoderma Granarium* (Khapra beetle) are present, a high dosage (up to 6 tablets/3g per cubic metre) should be used.

Aeration period after exposure: For Silos: Long exposures provide adequate in-built aeration ie. Gas aerates adequately within, say, 8-10 days. Turning or handling of grain for dust extraction or further processing provides further aeration of gas and aspiration of tablet residues.

For flat storage: commodities stacked under covers and empty enclosures: minimum 6 hrs. through ventilation with exhaust fans and blowers including 2-3 hrs. partial aeration (open all doors, windows, hatches, roll up covers quickly, etc.)

For leaf tobacco: Through ventilation for minimum 48 hrs in bales and 72 hrs in cases and hogsheads. Longer aeration ego 4-6 days preferable.

Accidental Release Measures: Minimum personal exposure. Do not touch spilled material. Use non-combustible material or kike for safe disposal.

Handling storage: Observe normal hygiene standards. Wash thoroughly after handling the material. Use detergent / Soap with water. Do not contaminate water, food or feed by storage or disposal. Store in a cool and dry areas. Sweep up spilled substance and remove to safe place.

Exposure controls/ personal protection: Protective eyewear (such as goggles or face shield). Applicators and handlers must wear: Coveralls over short sleeved shirts and short pants, Chemical resistant gloves and proper footwear.

ENVIRONMENT AND WILDLIFE

Given the characteristics and use patterns this pesticide is not expected to pose significant ecological risk to non- target organisms or to water sources under most circumstances. Do not contaminate water sources and supplies by disposal of product waste.

DISPOSAL

Disposal of waste product: This product is dangerous to the environment. Do not discharge to sewers, drains or watercourses.

This product must be disposed of as hazardous waste through a licensed waste-disposal contractor.

The production of waste should always be avoided through planning the operation well in advance, but if the product cannot be used up, then contact a licensed waste-disposal contractor.

Disposal of waste flasks: Handle and store empty flasks as if they still contained the product. Flasks must never be rinsed or cleaned but collected in a secure place, and left in the open air for several days. Large numbers of empty flasks should be moved to a deep open pit until any phosphine evolution is complete. The flasks should then be disposed off through a licensed waste-disposal contractor as hazardous waste.

FIRST AID INSTRUCTIONS:

CELPHOS can cause mild irritation to eyes and skin and burning sensation in the throat if swallowed.

Skin contact: Contaminated skin should be washed with plenty of water.

Eye contact: Hold eyelids apart and pour in a gentle stream of clean water for 15 minutes. See a doctor.

Ingestion: if swallowed induce vomiting by giving victim a table spoon of salt in a glass of warm water.

Repeat treatment until vomiting fluid is clear.

Inhalation: affected person should be moved to fresh air immediately.

TOXICOLOGICAL INFORMATION

Symptoms of poisoning: headache nausea, giddiness, blurred vision, dry cough choking of vomiting sensation & loss of muscle co-ordination.

Antidote: Incase of ingestion: give gastric lavage with potassium permanganate solution. In case of pulmonary oedema give hypertonic glucose solution intravenously.

Incise of inhalation: oxygen therapy is recommended

In case of an emergency, call Toll free Nos.: 0800720021 and 0800730030 (24hrs /masaa 24)

NOTICE TO USER : This pest control product is to be used only in accordance with the direction on this label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe condition.

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

READ THE LABEL BEFORE USING/ SOMA MAELEZO KWENYE KIBANDIKO KABLA YA KUTUMIA DAWA HII

CELPHOS

Fumigation Tablets

A fumigation tablet for the control of insect pest, mites and rodent that attack stored food grains and packed commodities.

(Tembe inayotoa mvuke, kuzuia aina zote za wadudu waharibifu, wadudu aina ya mites pamoja na aina za panya ambao huaribu punje za nafaka zilizohifadhiwa na bidhaa zilizopakwiwa.)



Flammable / Yaweza kuwaka

RESTRICTED CLASS

KEEP LOCKED AND OUT OF REACH OF CHILDREN (HIFADHI MBALI NA WATOTO)



Toxic if inhaled

GUARANTEE/DHAMANA: Aluminum Phosphide 57% w/w, Inert Ingredients 43% w/w

REGISTRATION NO.(NAMBARI YA KUSAJILIWA) PCPB (CR) 0379

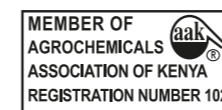
DATE OF MANUFACTURE AND BATCH NO.:(TAREHE YA KUTENGENEZWA NA NAMBARI YA KIFURUSHI)

SHELF LIFE: 2 years from date of manufacture in original, unopened container stored in a cool dry well ventilated place. **(MUDA RAFUNI:** Miaka miwili baada ya tarehe ya kutengenezwa ikihifadhiwa kwenye mtungi wake halisi usiofunguliwa na uliowekwa pahali pakavu na baridi).

DATE OF MANUFACTURE (TAREHE YA KUTENGENEZWA)	BATCH NO.:(NAMBARI YA KIFURUSHI)

In case of an emergency, call Toll free Nos.: **0800720021 and 0800730030 (24hrs /masaa 24)** (Piga simu isiyo na malipo wakati wa dharura)

DISTRIBUTOR (MSAMBAZAJI): Twiga Chemical Industries Ltd. P.O. BOX 30172, 00100, GPO, NAIROBI, KENYA. TEL: 254-20-3942300, FAX: 3942405



MANUFACTURER (MTENGENEZAJI): Excel Crop Care Ltd. Registered Office: 18 4-87, S.V Road, Swami Vivekanad Road Jogeshwari, Mumbai-400 102 India

Net Content (Kiasi kamili) 1 KG



VIDONGE VYA UFUKIZO

Dawa ya kufukiza ya kuzuia wadudu waharibifu aina ya mites pamoja na panya ambao huaribu punje za nafaka na didhaa zilizowekwa.

MAELEZO

CELPHOS ni dawa ambayo hutoa fosfina ambayo huzuia aina zote za wadudu waharibifu aina ya mites pamoja na panya ambao huaribu punje za nafaka zilizohifadhiwa na bidhaa zilizowekwa kwenye pakiti.

Huangamiza wadudu katika Kila kiwango; yai, kiluwi luwi, na mdudu mzima. Kwa vile fosfina hutawanyika kwa kiwango cha juu sana, huenea sawasawa na kwa haraka zaidi hadi kwenye maeneo zisizoweza kufikika kwa urahisi.

KIWANGO CHA MATUMIZI

Kipimo(kiwango cha matumizi) cha dawa ya CELPHOS pamoja na mda unaohitajika kuzuia wadudu waharibifu utategemea mdudu anaetakiwa kuangamizwa, joto na unyevu vinaweza tu kukadiriwa kama inavyo onyeshwa hapo chini.

AINA YA KUFUKIZA DHIDI YA MDUDU M HARIBIFU	KIPIMO	MDA WA MATUMIZI
Nafaka iliyohifadhiwa kwa wingi ndani ya maghala ama mapipa makubwa yaliyo simama	Tembe 2 hadi 4 (gramu 3) kwa tani	Mda mrefu, kwa mfano siku 8 hadi 10
Nafaka iliyohifadhiwa kwa wingi na bidhaa mbichi zilizohifadhiwa kwa kutandaa chini, ndani ya mapipa yasiyo marefu, mashua kubwa, ndani ya meli ama ndani ya magunia chini ya vifuniko visivyo pitisha hewa ama ndani ya ua.	Tembe 3 hadi 5 (gramu 3 kwa Tani)	Kwa masaa yasiyopungua 120 hadi 1668 katika joto nyuzi 10 hadi nyuzi 15, masaa isiyopungua 96 hadi 120 katika joto nyuzi 16 hadi nyuzi 20 masaa 70 hadi 96 katika joto nyuzi zaidi ya 20
Kufikiza dawa eneo lililo na vyakula vilivyopakwiwa pamoja na vyakula vya mifugo, bidhaa zisizo chakula vilivyo pangawa chini ya vifuniko visivyo penyeza hewa	Tembe 1 hadi 11/2 (gramu 3 kwa mita mchemraba)	Kiwango cha chini masaa 160 kwenye joto la nyuzi 10 hadi nyuzi 15. Masaa 120 kwenye joto la nyuzi 16 hadi nyuzi 20. Masaa 96 kwenye joto zaidi ya nyuzi 20.
Majani ya tumbako yaliyo kwenye marobota, mufusha au mapipa makubwa	Nusu tembe hadi temebe 1(kiwango cha juu) gramu 3 kwa mita mchemraba	Vipindi virefu kwa mfano siku 8 zinapendekezwa.
Kuweka dawa maeneo yaliyofagiliwa yasiyo na kitu kama vile vya kusaga unga, maghala, na kontena za meli	Nusu tembe hadi temebe 1(kiwango cha juu) gramu 3 kwa mita mchemraba	Kiwango cha chini masaa 160 kwenye joto la nyuzi 10 hadi nyuzi 15. Masaa 120 kwenye joto la nyuzi 16 hadi nyuzi 20. Masaa 96 kwenye joto zaidi ya nyuzi 20.
DHIDI YA WADUDU WAHARIBIFU WANAOISHI NDANI YA MASHIMO		
Unyunyizaji dawa ndani ya mashimo	Ingiza tembe moja (gramu 3) ndani ya kila shimo, kasha ufunge mlango wa shimo kwa vidonge vya karatasi viivyotwi maji ama udongo ulio lowa maji	masaa 24 (usiku kucha)

HOTUBA

KIPIMO: kila tembe lina gramu moja ya fosfina. Ikiwa kuna vimelea aina ya *Sitophilus* spp. Na *Trogoderma* spp. vipimo vya juu vilivyo pendekezwa au zaidi utahitajika na mda zaidi ya kile kiwango cha chini kilichopendekezwa zitahitajika.

Katika hali mbaya, kwa mfano kutokeapo kuvuja kwingi, kunapokuwa na uvamizi mkubwa, ama wakati kitu chenye vumbi kinawekwa dawa, kipimo cha chini kilicho onyeshwa hapo juu huenda ikahitajika kuzidisha mara mbili kukiwepo na haja. Kama vijidudu vya kiluwi luwi vya *Trogoderma graneavium* (khapra beetle) viko, kipimo cha juu (cha hadi temebe 6, gramu 3 mita mchemraba) yapaswa kutumiwa.

KIPINDI CHA KUTIA HEWA BAADA YA MATUMIZI

Kwenye ghala: matumizi ya mda mrefu hutowa nafasi ya mumo kwa mumo ya kupitisha hewa. Kwa mfano gesi hupitisha hewa ya kutosha ndani ya siku 8 hadi 10. Ugeuzi ama ushikaji wa nafaka ili kutoa vumbi ama katika shughuli za kuendeleza matayarisho hutoa nafasi zaidi ya kupitisha hewa kwa gesi na uondoaji wa mabaki ya dawa.

Kwa uhifadhi kwenye sakafu: bidhaa zilizowekwa chini na kufunikwa na maeneo yaliyofungwa yasiyo na kitu, masaa 6. Kupitia kupitisha hewa kwenye kwa kutumia abauka za kutoa upepo na 'blowers' masaa 2 hadi 3. Kutia upepo kwa sehemu (fungua mara moja milango yote, madirisha, milango ya kushuka ndani ya meli na vifuniko, n.k.

Kwa majani ya tumbako: kwa kupisha hewa safi kwa kiwango cha chini masaa 48 katika marobota na masaa 72 katika makasha ya mapipa makubwa mda mrefu wa kupisha hewa safi kwa mfano siku 4 hadi 6 zinapendekezwa.

HATUA ZA TAHADHARI

Ikimwagika: kiwango cha chini cha mtu kujieka wazi kwa dawa hii. usiguse dawa iliyomwagika. Tumia vitu visivyoweza kushika moto haraka kwa utupaji salama.

Utunzaji na uhifadhi: weka viwango vya kawaida vya usafi. Nawa sawa sawa baada ya kutumia dawa hii kwa kutumia sabuni na maji. Usichafue maji, chakula au lishe ya mifugo, kwa kuhifadhi au kutupa. Hifadhi mahala baridi pakavu. Fagia dawa iliyo mwagika na uondoe na upeleke masazo mahali salama.

MASHARTI YA MATUMIZI/ULINZI WA BINAFSI

Tumia kinga ya macho kama vile miwani au kinga ya uso, watumiaji ni lazima wavae ovaroli ya mikono mirefu juu ya vinyasa na mashati ya mikono mifupi. Glovu za mikono zinazozuia kemikali pamoja na viatu vya kisawa.

MAZINGIRA NA WANYAMAPORI

Kutokana na tabia na mwelekeo wa matumizi ya dawa hii haitarajiwi kuwa na madhara ya mazingira ya viumbe yasiyo lengwa au vyanzo vya maji chini ya hali ya utumizi ulioagizwa. Usichafue vyanzo vya maji na vifaa au utupaji wa bidhaa taka.

KUTUPA

Kutupa bidhaa taka: Dawa hii ni hatari kwa mazingira. Usimwage kwenye mabomba ya maji machafu, au mito na chemichemi ya maji.

Bidhaa hii lazima itupwe kama taka kupitia mkandarasi mwenye leseni ya utupaji bidhaa taka. Uzalishaji wa taka lazima kuepukea kupitia mipango ya mapema, lakini kama bidhaa haiwezi kutumika wasiliana na mkanadarasi mwenye leseni ya utupaji bidhaa taka.

Utupaji wa flaski taka: tunza na kuhifadhi Flaski tupu kama zile bado zilizomo bidhaa. Flaski kamwe zisioshwe au kusafishwa lakini zilikusanywe mahali pamezingirwa na kuachwa katika hewa wazi kwa siku kadhaa. Idadi kubwa ya Flaski tupu lazima zitiwe kwenye shimo refu wazi hadi mageuzi ya fosfina yakamili- like kisha zitupwe kama taka hatari kupitia mkandarasi mwenye leseni ya utupaji bidhaa taka.

HUDUMA YA KWANZA

CELPHOS inaweza kusababisha kuwasha kidogo kwa macho na ngozi na kusikia kuchomwa kooni ukimezwa.

Ikiwa kwenye ngozi: osha pahala palipo dhurika kwa maji mengi

Ikgiza macho: shikilia kope ya macho wazi na uoshe taratibu na maji safi kwa mda wa dakika 15. Mwone daktari

Ikivutwa ndani: mgonjwa awekwe nje kwenye hewa safi haraka

Ikimezwa: mtapishe mwathirika kwa kumnyesha maji moto kiasi iliyotiwa chumvi kijiko kimoja cha kula. Rudia hadi matapishi yawe safi.

HABARI YA KITOKSINI

Dalili za sumu : kuumwa kichwa, kutapika, kusikia kisunzi, kuona maruwe ruwe, kikohozi kikavu, kusikia kama kutaka kunyongwa na matapishi na kupoteza uwezo wa matumizi ya misuli.

Nguvu za kuvunja sumu: kama imezwa, mfanyie mgonjwa huduma ya gastric lavage kwa kutumia mchanganyiko wa maji ya dawa ya potassium permanganate. kama mgonjwa atapatwa na pulmonary oedema, (maji ndani ya mapafu) mpe mchanganyiko wa hypertonic glucose kupitia mishipa ya damu. Kama imevutwa ndani tiba ya oxygen inapendekezwa.

Piga simu bila malipo wakati wa dharura : 0800720021 ama 0800730030 masaa 24

ILANI KWA MTUMIAJI : Dawa hii sharti itumiwe kulingana na maagizo yaliyo kwenye kibandiko. Ni hatia chini ya Sheria za Madawa ya Kuangamiza Wadudu Waharibifu (Pest Control Products Act) kutumia au kuhifadhi dawa hii katika hali isiyo salama.

THIBITISHO : Dhamaana ya muuzaji ni maelezo yaliyo kwenye kibandiko ambayo ni lazima yafuatwe kikamilifu. Mnuuzi lazima akubali hatari zozote zinazoweza kutokana na matumizi ya dawa hii kwa binadamu au mali na lazima aikubali dawa hii katika hali hiyo.