

93.04.29

(( LABEL ))

DETIA

DETIA TABLETS

FOR THE CONTROL OF STORED - PRODUCT INSECT PESTS

RESTRICTED

GUARANTEE: ALUMINUM PHOSPHIDE .... 57%

REGISTRATION NO. 15205 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 500 TABLETS; 1500 g

Manufactured by:  
Dr. Werner Freyberg  
Chemische Fabrik  
694 Weinheim  
F.R. of Germany

Distributed by:  
Research Products Company  
Box 1057, Salina, Kansas 67401

READ THIS LABEL AND ATTACHED  
BROCHURE BEFORE USING

KEMSAN  
Canadian Distributor:  
KemSan Inc.  
Box 727  
Oakville, Ontario L6J 5C1  
Telephone: (416)845-2271

NOTICE TO USER: This control product is to be used only in accordance with the directions on the label. It is an offence

under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NATURE OF RESTRICTION: This product is to be stored apart from lodging for humans, animal quarters, and normal work areas, to avoid inadvertent exposure to gas.

#### DIRECTIONS FOR USE

Refer to the instruction booklet attached to can for detailed use instructions concerning the fumigation of certain Raw Agricultural Commodities and Animal Feeds; information concerning dosage and exposure, and other information necessary to properly use Detia Pellets. Used as directed therein Detia Pellets will aid in the control of rusty grain beetle, rice weevil, lesser grain borer, granary weevil, red flour beetle, Indian meal moth, sawtoothed grain beetle, confused flour beetle, cadelle, angoumois grain moth, yellow mealworm, Mediterranean flour moth, dried-fruit moth, bean weevil, and their pre-adult stages (egg-larvae-pupae). For rusty grain beetle, fumigate for at least 96 hours at 27°C. Gas concentration must be above 100 ppm at the end of the 4th day. Aerate all fumigated products for at least 48 hours before offering to consumers.

#### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS: Detia Tablets react with atmospheric moisture to form and release the poisonous gas phosphine (Syn: Hydrogen Phosphide) once it is removed from the can. Atmospheric and/or commodity temperature and humidity dictates the rate and duration of the reaction. Do not enter any area under fumigation.

Wear gloves when handling. Open flasks in well ventilated areas, preferably outside. Do not breathe vapors. Do not breathe dust. Do not get pellet dust in eyes or on hands, skin or clothing. Poisonous if swallowed. Do not eat, drink or smoke while handling. Wash hands thoroughly with soap and water after handling. Always work in pairs or multiples thereof with gas masks readily available at all times. The recommended gas mask is a "FULL-FACED" all service type, fitted with a canister designed for phosphine gas only.

#### PHYSICAL AND CHEMICAL HAZARDS:

Spontaneous ignition may result if pellets come into contact with water or other liquids. Phosphine reacts corrosively with copper, brass, gold and other precious metals.

#### FIRST AID INSTRUCTIONS:

At first warning of symptoms, take victim to fresh air immediately. CALL A DOCTOR! Lay the victim down, keep warm

with blankets. Supply pure oxygen and maintain respiration, artificially if necessary, until the doctor arrives. If the tablets or the tablet dust has been swallowed remove victim to open air and induce vomiting with 5 mL of salt dissolved in a glass of warm water. Repeat until the vomit fluid is clear. TAKE VICTIM DIRECTLY TO HOSPITAL. Lie the victim down after removal of any contaminated clothing. Keep warm.

TOXICOLOGY

SYMPTOMS OF PHOSPHINE POISONING: Sensation of cold, diarrhea, gastric pains, acute indigestion, dizziness, dry cough, loss of appetite, intense thirst, vomiting, enlarged pupils, choking attacks, reeling.

NOTICE TO BUYER: Seller's guarantee shall be 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.

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#### DIRECTIONS(1)

#### APPLICATION PROCEDURES

Detia Tablets are registered for the post harvest fumigation of the raw agricultural commodities rice, wheat, barley, corn, oats, sorghum, millet, rye, popcorn, soybeans, sunflower seeds, nuts (in shells), cotton seed, coffee beans (raw), cocoa beans, dates, as well as animal feeds.

Used as directed they will provide an aid in the control of rusty grain beetle, rice weevil, lesser grain borer, granary weevil, red flour beetle, Indian meal moth, sawtoothed grain beetle, confused flour beetle, cadelle, angoumois grain moth, yellow mealworm, Mediterranean flour moth, dried-fruit moth, bean weevil, and their pre-adult stages (egg-larvae-pupae). For rusty grain beetle, fumigate for at least 96 hours at 27°C. Gas concentration must be above 100 ppm at the end of the 4th day.

Tablets are particularly suited for use in storage facilities that are not equipped to conveniently turn or transfer commodities. There are many such "flat storage" structures routinely used by commodity handlers. A typical example would be a metal or wood frame building. The basic procedure is to uniformly insert, or probe, the required number of tablets into the commodity pile with specially designed probes. It is essential that a pre-fumigation plan be adopted and followed. A pre-requisite to fumigation is a storage facility that can be properly sealed or otherwise prepared.

Aerate all fumigated products for at least 48 hours before offering to consumers.

In addition, steps must be taken such as notifying local authorities (fire, police, etc.), posting of danger signs, being certain first aid information and proper respiratory protection equipment is at the site, being certain that all adjoining facilities are evacuated, posted and locked; being certain of the recommended application procedures, and that operators have been trained and understand labeling.

(1) For additional information refer to booklet entitled "Application Procedures for Detia Pellets and Tablets".

DOSAGE: There is no way in this brochure to address every condition that will affect dosage. Therefore the dosage schedule to follow is presented only as a guide. It is up to the user to determine what dosage best matches the conditions faced.

#### SUGGESTED DOSAGE SCHEDULE

6 Tablets per tonne (1,000 kg).  
158 Tablets per 100 cubic metres.

EXPOSURE: Both temperature and humidity influence the rate of decomposition. The higher each is the faster the release of hydrogen phosphide. As stated, however, from a practical standpoint the commodity temperature determines the exposure period.

In that connection the following table can be used as a guide for determining exposure periods.

Commodity Temperature C'	Required Exposure Period
4' & below .....	Do Not Fumigate
5' - 11' .....	10 days (240 hrs.)
12' - 15' .....	5 days (120 hrs.)
16' - 20' .....	4 days (96 hrs.)
Above 20' .....	3 days (72 hrs.)

The foregoing table is a guide. Whenever possible exposure periods should be lengthened and not shortened. The key to effective results lies with correct dosage, long exposure periods, proper application, and well sealed storage structures.

#### DOSAGE

- (1) LEAKING FLASKS: Wearing a gas mask or suitable respirator transfer tablets to a sound flask, secure the stopper, arrange to use at the first opportunity.
- (2) SPILLS: If noticed before a decomposition begins, pick up the tablets while wearing gloves and place them back into

the original container. Reseal it.

If decomposition has begun, evacuate the area, put on a gas mask or suitable respirator, sweep up the tablets or their dust, and place into any available, dry receptacle. Take immediately to an open isolated area and bury.

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