



066330-00023-060499

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Systems Integration Group, Inc.

PM22

66330-23

6/4/99

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

JUN 4 1999

Mr. Joseph Solga
TOMEN AGRO, Inc.
100 First Street, Suite 1700
San Francisco, CA 94105

Dear Mr. Solga:

Subject: EPA Registrations Number 66330-23
Captan 4 Flowable
Amendment - To change company name, registration
number, emergency telephone number and warranty as a
result of transfer of registration from Zeneca, Inc.
Your submission dated February 2, 1999.

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling.

1. On the front panel, the Spanish language statement must be followed by the English translation and read as follows:

"Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)"

2. Under **Environmental Hazards** -- DO NOT delete the sentence "Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas."

3. Under **Agricultural Use Requirements** -Add the following Restricted Entry Interval for strawberries:

"Exception: The Restricted Entry Interval (REI) for strawberries is 24 hours. After expiration of the 24 hour period no personal protective equipment is required."

4. Under **STRAWBERRIES**, the statement "may be applied up to day of harvest" conflicts with the 24 hour Restricted Entry Interval. Revise to state "Do not apply within one day of harvest".

If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely,
(S)

Cynthia Giles-Parker
Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Enclosure:

CAPTAN 4 FLOWABLE

Aqueous Suspension

Agricultural Fungicide

ACTIVE INGREDIENTS:

Captan*.....	38.7%
Related Derivatives.....	0.9%

INERT INGREDIENTS:	60.4%
TOTAL	<u>100.0%</u>

* N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide.

(Contains 4 Pounds Active Ingredient Per Gallon)

KEEP OUT OF REACH OF CHILDREN

ACCEPTED
with **COMMENTS**
in **EPA Letter Dated:**

JUN 4 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

66330-23

DANGER - PELIGRO

PRECAUCION AL
USUARIO: SI USTED NO
LEE INGLES, NO USE
ESTE PRODUCTO HASTA
QUE LA ETIQUETA LE
HAYA SIDO EXPLICADA
AMPLIAMENTE

CAUSES IRREVERSIBLE EYE DAMAGE

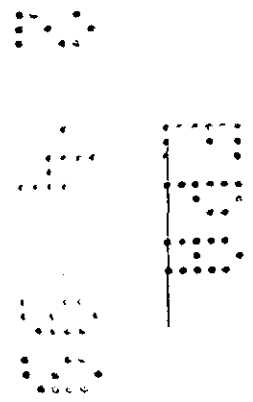
This product is sold only for uses stated on the label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: U.S.A.

EPA Reg. No. 40182-165 66330-23

_____ GAL. NET

EPA Est. No.

Made in U.S.A By
ICI Agricultural Products
ICI Americas Inc.
Wilmington, DE 19897 TOMEN AGRO, Inc.
100 First Street, Suite 1610
San Francisco, CA 94105



STATEMENT OF PRACTICAL TREATMENT

First Aid:

Immediately start the procedures given below and CONTACT A POISON CENTER, A PHYSICIAN, OR THE NEAREST HOSPITAL. Describe the type and extent of exposure, the victim's symptoms, and follow the advice given.

IF IN EYES: Flush with plenty of water. Call a physician.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solutions, or if these are not available, drink large quantities of water. Avoid alcohol.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if abnormal reaction occurs.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL ~~1-800-F-A-S-T-M-E-D~~
(1-800-327-8633) 1-800-228-5635, Extension 174**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call
CHEMTREC 1-800-424-9300.**

PRODUCT FREEZING TEMPERATURE: 32°F. Satisfactory utility may generally be restored after thawing and mixing a product which has frozen. Repeated freezing-thawing cycles may impair utility.

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER

Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. ~~Wear goggles or face shield when handling.~~ Avoid contact with skin and clothing. Avoid inhalation of spray mist. ~~Remove and separately launder clothing before reuse.~~

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading
- Dust/Mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
 - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
-

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes) or to areas where surface water is present or to intertidal areas below the mean high water mark. ~~Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.~~ Do not clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources.

DIRECTION FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days.

Exception: For the last 48 hours of the REI, workers may enter the treated area to perform hand labor or other tasks involving contact with anything that has been treated, such as plants, soil or water, without time limit, if they wear the early entry Personal protective equipment listed below.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Notify workers of the application by warning them orally or by posting warning signs at entrances to treated areas.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH A APPLICABLE STATE AND FEDERAL REGULATIONS.

CAPTAN 4 FLOWABLE is an aqueous suspension for use in water as a spray for the control of certain fungal diseases of fruit.

Do not apply this product through any type of irrigation system.

BEFORE USING MIX CONTENTS THOROUGHLY—STIR OR ROLL!

Pour recommended amount of this material into nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operations. Do not allow mixture to stand. Use a screen not finer than 50 mesh in entire system. Do not combine with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants.

USE PRECAUTIONS

THIS FORMULATION IS NOT SUITABLE FOR USE AS A SEED PROTECTANT.

Observe use limitations given on the label for specific crops.

In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Environmental Protection Agency, use only at recommended rates and intervals. Do not apply or allow to drift onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damage caused by drift from his property to that of others.

Consult State Agricultural Experiment Stations or the State Agricultural Extension Service for additional information, as the time of applications needed will vary with local conditions.

~~Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and separately launder clothing before reuse.~~

~~Mixers/loaders when mixing and loading this product must wear a long sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands and feet. Wear chemical resistant gloves, goggles or a face shield and a chemically resistant apron.~~

~~Fieldworkers and harvesters must wear chemical resistant gloves if entering treated areas within 4 days following application. Leather or fabric gloves are not acceptable.~~

~~During application only, from a tractor with a completely enclosed cab or from an aircraft with an enclosed cockpit, a long sleeved shirt and long legged pants must be worn. Chemically resistant gloves must be available in the cab or cockpit and worn while exiting.~~

~~AFTER WORK. Take off all clothes and shoes. Shower using soap and water. Do not wear contaminated clothing. Wash protective clothing and equipment with soap and water after each use. Personal clothing worn during use must be laundered separately from household articles. Clothing and protective equipment heavily contaminated or drenched with CAPTAN must be destroyed according to state and local regulations.~~

RE-ENTRY STATEMENT

- ~~Do not apply this product in such a manner as to directly or through expose workers or other persons. The area being treated must be vacated by unprotected persons.~~
- ~~Do not allow persons to enter treated areas within 4 days following application unless a long-sleeved shirt and long pants or a coverall that covers all parts of the body except the head, hands, and feet and chemically resistant gloves are worn. Conspicuously post reentry information at site of application.~~
- ~~Certain states may require more restrictive reentry intervals for various crops treated with this product. Consult your State Department of Agriculture for further information.~~
- ~~Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.~~

FRUIT AND NUT CROPS

Use Precautions

For aerial or concentrate spray applications, apply the same amount of CAPTAN 4 FLOWABLE per acre as would normally be applied for dilute sprays. Apply the high rate when climatic conditions most favors disease(s) and the low rate when climatic conditions least favors disease(s). If you are unaware of the climatic conditions favorable for disease(s) claimed for the specific use sites, you must consult with your State Agricultural Extension Service to learn of these conditions.

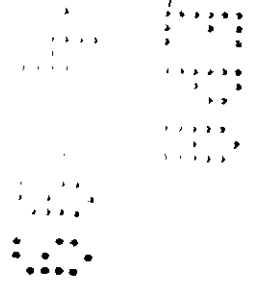
ALMONDS: Brown rot twig and blossom blight, shothole, scab, leaf blight – Apply 4½ qts. CAPTAN 4 FLOWABLE per acre in 20 to 300 gallons of water using ground equipment. Apply at popcorn, bloom and petal fall stages and up to 5 weeks after petal fall. Do not apply within 30 days of harvest. Hulls may be fed to livestock. Subsequent applications may be made up to 12 days of harvest in accordance with pest infestations and state agricultural extension service recommendations, provided the hulls are not fed to dairy animals or animals being finished for slaughter. Do not apply more than 22.5 quarts of product per crop cycle.

APPLES (Western U.S.): Primary scab – Apply 4 qts. CAPTAN 4 FLOWABLE per acre in a high volume application for preblossom sprays. In mid-summer, the dosage may be reduced to 2 qts. per acre in high volume applications. (Pacific northwest) – Bull's eye rot, Botrytis rot – Apply 4 qts. CAPTAN 4 FLOWABLE per acre in 20 to 400 gallons of water using ground equipment. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest. Do not apply more than 32 quarts of product per acre per crop cycle. May be applied up to day of harvest.

APRICOTS: Brown rot (twig blight), jacket rot – Apply 2½ qts. CAPTAN 4 FLOWABLE per acre in 20 to 250 gallons of water using ground equipment. Apply in red bud bloom, 75% petal fall and cover sprays. Do not apply by aerial application to apricots. Do not apply more than 12.5 quarts of product per acre per crop cycle. May be applied up to day of harvest.

BLUEBERRIES (Western U.S.): Botrytis gray mold or berry rot, mummy berry – Apply 1 to 2½ qts. CAPTAN 4 FLOWABLE per acre in sufficient water for thorough coverage. Begin at mid-bloom, repeat at 7 to 10 day intervals until maturity. Do not apply more than 35 quarts of product per a cre per crop cycle. May be applied up to day of harvest.

BLUEBERRIES (Eastern U.S.): Botrytis gray mold or berry rot, mummy berry – 2½ qts. CAPTAN 4 FLOWABLE per acre in sufficient water for thorough coverage. Start spray program when buds swell and earliest buds have loose scales. Repeat at 7 days intervals through blossom period. Repeat at 7 to 10 day intervals from late bloom. Do not apply more than 35 quarts of product per acre per crop cycle. May be applied up to day of harvest.



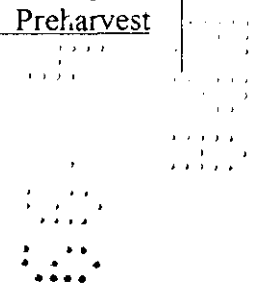
CHERRIES (Western U.S.): Brown rot blossom blight, brown rot (fruit), leaf spot – Apply 2 qts. CAPTAN 4 FLOWABLE per acre in 20 to 200 gallons of water using ground equipment. Apply in pre-bloom, bloom, petal fall, shuck, cover and preharvest sprays. Do not apply by aerial application to cherries. Do not apply more than 14 quarts of product per acre per crop cycle. May be applied up to day of harvest.

GRAPES (California): Bunch rot (Botrytis) – Apply 2 qts. CAPTAN 4 FLOWABLE per acre in 20 to 200 gallons of water using ground equipment. Make 2 applications before bloom and immediately after bloom. Repeat periodically making 3 cover applications before the bunches close. Dead Arm (current season infection) – Apply 1½ to 2 qts. CAPTAN 4 FLOWABLE per acre in 20 to 200 gallons of water using ground equipment. Apply 2 qts. CAPTAN 4 FLOWABLE per acre in 7 to 20 gallons of water by aircraft. Apply first spray when green tissue begins to show but before shoots are 1 inch long and repeat application when shoots are 6 to 8 inches long. Do not apply more than 12 quarts of product per acre per crop cycle. May be applied up to day of harvest.

NECTARINES: Brown rot, scab – Apply 2½ qts. CAPTAN 4 FLOWABLE per acre in 20 to 250 gallons of water using ground equipment. Apply in full pink, bloom, petal fall, shuck, cover and preharvest sprays. Applications at 3 to 4 day intervals may be necessary during bloom to control blossom blight. Repeat application at 7 to 14 day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 7.5 lbs. sulfur per acre to the petal fall, shuck and early cover sprays. If sulfur is add, CAPTAN 4 FLOWABLE may be reduced to 1½ qts. per acre in these sprays. Coryneum blight (peach blight, shothole) – Apply 4 qts. CAPTAN 4 FLOWABLE per acre in 20 to 250 gallons of water using ground equipment. Apply in pink bud, full bloom, petal fall and cover sprays as necessary and as a post harvest spray (but before leaves drop). Do not apply by aerial application to nectarines. Do not apply more than 24 quarts of product per acre per crop cycle. May be applied up to day of harvest

PEACHES: Brown rot, scab – Apply 4 qts CAPTAN 4 FLOWABLE per acre in 20 to 400 gallons of water using ground equipment. Apply in full pink, bloom, petal fall, shuck stages and in cover and preharvest sprays. Applications at 3 to 4 day intervals may be necessary during bloom to control blossom blight. Repeat application at 7 to 14 day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 12 lbs. sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, CAPTAN 4 FLOWABLE may be reduced to 2 qts. per acre in these sprays.

Coryneum blight (peach blight, shothole) – Apply 4 qts. CAPTAN 4 FLOWABLE per acre in 20 to 400 gallons of water using ground equipment. Apply in pink bud, full bloom, petal fall stages and cover sprays as necessary and as a post harvest spray (but before leaves drop). Do not apply more than 32 quarts of product per acre per crop cycle (including post harvest spray). Preharvest sprays may be applied up to day of harvest.



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PEACHES (NURSERY STOCK) (California): Preventative preplant dip treatment for crown gall. Use 2 qts. CAPTAN 4 FLOWABLE plus 3.2 pints diluted sodium hypochlorite (5.25% household bleach) per 100 gallons water. Wash nursery trees to remove soil from roots. Cut off all dormant buds and suckers in crown area and prune root system if necessary. Submerge the entire dormant tree for 5 minutes. Recharge dip during operation as necessary to maintain a proper concentration of 200 ppm chlorine. Check the concentration frequently using a chlorine test kit.

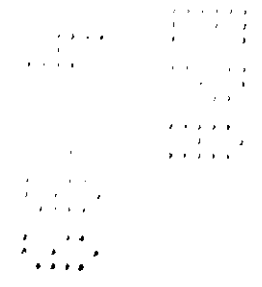
PLUMS, FRESH PRUNES (Western U.S.): Brown rot – Apply 3 qts. CAPTAN 4 FLOWABLE per acre in 20 to 300 gallons of water using ground equipment. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant. Prune russet scab (lacey scab) (in California only) – Apply 3 qts. CAPTAN 4 FLOWABLE acre in 20 to 300 gallons of water using ground equipment. Apply at full bloom. Do not apply by aerial application to plums or fresh prunes. Do not apply more than 27 quarts of product per acre per crop cycle. May be applied up to day of harvest.

STRAWBERRIES: Botrytis (gray mold), leaf spot – Apply 3 qts. CAPTAN 4 FLOWABLE per acre in sufficient water for thorough coverage by ground equipment or in 10 to 20 gallons of water by air. Begin application when new growth starts in the spring and before fruit starts to form. Repeat at ~~weekly~~ 7-14 day intervals. Under conditions favorable to fruit rot continue applications through harvest period treating immediately after each picking. Do not apply more than 24 quarts of product per acre per year. Maybe applied up to day of harvest. Restricted entry interval is 24 hours. When applying as a directed/banded spray, use band rate of Captan 4 Flowable according to the following formula:

$$\frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \frac{\text{Broadcast Rate}}{\text{Per Acre}} = \frac{\text{Banded Rate of Captan 4F}}{\text{per acre}}$$

POST HARVEST DIP: CAPTAN can be used as a post-harvest dip or wash on the following crops for prevention of various rots and molds (Rhizopus, Botrytis, Gloeosporium) during storage: Apples, Cherries, Pears. Dilution Rate: Use 1¼ qt. per 100 gals. water. Apply as a spray or in dip tank. When used as a dip, recharge wash solution periodically as volume in tank is deleted. When tank volume is reduced 25%, bring water back to volume adding 3/8 qt. CAPTAN 4 FLOWABLE for every 25 gals. of water added. At end of every 8-hour shift, empty tank, flush and charge with fresh dilution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operations.

CAPTAN wastes are acutely hazardous. Improper disposal of spray or dip tank mixtures is a violation of Federal Law. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance concerning the disposal of spent or excess dip tank mixtures.



STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep pesticide in original container. Store in a cool dry place (below 110°F). Protect from freezing temperatures (32°F or lower).

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

~~**NOTICE TO BUYER AND USER:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller, and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.~~

NOTICE TO BUYER AND USER:

CONDITIONS OF SALE:

1. TOMEN AGRO, Inc. warrants that this product conforms to the chemical description on the label and is reasonable fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use.
2. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Tomen. TOMEN DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY

SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. TOMEN DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

3. Critical and unforeseeable factors beyond Tomen's control prevent it from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which the product is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated on the label and even though label directions are followed. Except as stated in 1 above, Buyer and User acknowledge and assume all risks and liability resulting from handling, storage, and use of this product.