

NOV 02 1990

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Ms. Ada M. Breaux  
Sandoz Crop Protection Corporation  
1300 East Touhy Avenue  
Des Plaines, Illinois 60048

Dear Ms. Breaux:

Subject: SAN 415 SC 32 LV  
EPA Registration No. 55947-79  
Your submission of September 28, 1990

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

Phil Hutton  
Product Manager (17)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosure

BEST AVAILABLE COPY

# SAN 415 SC 32LV

FOR CONTROL OF GYPSY MOTH AND SPRUCE BUDWORM  
IN SHADE TREES, ORNAMENTALS, AND FOREST

## ACTIVE INGREDIENT:

Bacillus thuringiensis, subspecies kurstaki, potency of 8,000  
International Units (at least 12 million viable spores) per milligram\*... 1.6%

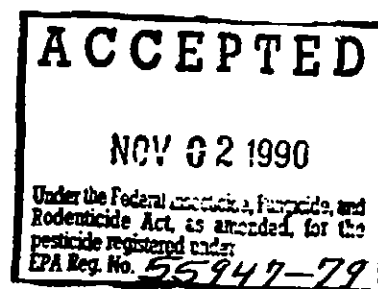
INERT INGREDIENTS: ..... 98.4%

TOTAL ..... 100.0%

\*Equivalent to 8.0 billion International Units per quart.

KEEP OUT OF REACH OF CHILDREN

CAUTION



EPA Reg. No. 55947-79  
EPA Est. No. 55947-CA-2

Net Contents:

SANDOZ CROP PROTECTION CORPORATION  
Des Plaines, Illinois 60018

September 1990

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS**

Avoid inhalation or contact with eyes or open wounds.

### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Aerial application is permissible only above tree canopy. Do not contaminate water when disposing of equipment washwaters.

### **DIRECTIONS FOR USE**

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

Suspension must be shaken or stirred before use. Pour the recommended amount of SAN 415 SC 32LV into the required volume of water in the spray tank. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 72 hours. SAN 415 SC 32LV is formulated to provide desirable coverage and stickability on leaf surfaces. Additional adjuvants, spreaders, or stickers may be added but are not essential.

Do not apply this product through any type of irrigation.

#### **GROUND APPLICATION**

Use adequate water to obtain good foliar coverage. Wet foliage but do not allow excessive run-off. Apply the recommended per acre rates of SAN 415 SC 32LV with the following suggested amounts of water:

100 gallons with high-gallonage hydraulic sprayers  
10 gallons with mist blower

#### **AERIAL APPLICATION**

Apply SAN 415 SC 32LV at recommended rates by air, either alone or as a spray mix diluted with water. Spray volumes of 32-128 ounces per acre are recommended. Best results are expected when SAN 415 SC 32LV is applied to dry foliage with a calibrated aircraft capable of obtaining droplet sizes below 300 microns and preferably in the range of 50-150 microns.

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## RECOMMENDATIONS FOR SHADE TREES, ORNAMENTALS, AND FOREST

Thorough coverage is essential when using SAN 415 SC 32LV. Use the lower rate for light to moderate infestations. Use the higher rates against heavier worm infestations.

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| Pest           | Ounces<br>Per Acre | Dosage<br>BIU<br>Per Acre | Directions For Use  |
|----------------|--------------------|---------------------------|---|
| Gypsy Moth     | 24-160             | 6-40                      | Apply when leaf expansion reaches 40-50% as infestation warrants. If eggs hatch over a long period of time or if reinfestation occurs, respray about 14 days after the first application. |
| Spruce Budworm | 24-160             | 6-40                      | Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.   |

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## **STORAGE**

Store in a cool place. Activity may be impaired by storage at prolonged temperatures above 90° F. Protect from freezing.

## **DISPOSAL**

### **PESTICIDE**

Pesticide, spray mixture or rinse water than cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures.

### **CONTAINER**

Do not contaminate water, food, or feed by storage or disposal. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## **LIMITED WARRANTY AND LIABILITY**

Read this Limited Warranty and Liability before buying or using this product. If terms are not acceptable, return it at once, unopened.

It is critical that this product be used and mixed only as specified on the label. The laws of a State may make some or all of this paragraph inapplicable or may give you rights in addition to your rights hereunder. Except to the extent prohibited by applicable law, the exclusive remedy of the user or buyer and the limit of liability of this Company or any other Seller for any and all losses, personal injuries or damages resulting from the use of this product, shall be the purchase price paid by the user or buyer for the quantity of product involved. Except to the extent prohibited by State Law, there is no warranty and this Company and other Sellers disclaim all liability for losses, personal injury or damages: (i) arising from any use of this product in a manner or for a purpose not recommended in its label directions, or from mixing this product before use with any substance except as recommended by the product's label; (ii) arising from handling or storage in violation of label instructions; (iii) for all indirect, special or consequential damages; (iv) when not reported to this Company within one year of discovery. THERE ARE NO IMPLIED WARRANTIES AND NO WARRANTIES OF MERCHANTABILITY OR FITNESS.

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**COMPANY  
NUMBER**

10707

**PRODUCT  
SERIAL NO.**

3

**LABEL  
APPROVAL  
DATE**

7-30-90

JUL 20 1990

Baker Performance Chemicals, Inc.  
3920 Essex Lane  
Houston, TX 77027

Attention: Halina Caravello

Gentlemen:

Subject: Magnacide® 407  
EPA Registration No. 10707-3  
Your Submission Dated March 5, 1990  
EPA Received Date March 12, 1990

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit five (5) copies of your final printed labeling before you release the product for shipment.

However, the enclosed efficacy data is being returned to you because it has not been formatted correctly.

In order to include this data with the rest of the information in your file, please format the efficacy correctly.

If these conditions 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 bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records

61702:I:Leavy:LL-11:KENCO:07/24/90:08/23/90:DD:VO:EK:DD


CONCURRENCES

|         |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|
| SYMBOL  |  |  |  |  |  |  |  |
| SURNAME |  |  |  |  |  |  |  |
| DATE    |  |  |  |  |  |  |  |

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If you have any questions concerning this letter, please contact  
Karen Leavy at (703) 557-3966.

Sincerely yours,

John H. Lee   
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosures



ACCIDENT  
with COMMENTS  
in EPA Letter D-104

JUL 30 1990



A Baker Oil Tools Company

(EPA Reg. No. 10707-3)

10707-3  
**MAGNACIDE® 407**

**INDUSTRIAL BACTERICIDE**  
**For Treatment of Oilfield Water Injection Systems, Packer Fluid**  
**and Drilling Mud**

### DESCRIPTION

MAGNACIDE® 407 is a quaternary ammonium compound effective in control of the growth of mixed aerobic and anaerobic bacteria in oilfield waters ranging from fresh water to moderately saline solutions. MAGNACIDE® 407 is similar to other quaternaries in that it is not effective in heavy brine. The high degree of surface activity exhibited by MAGNACIDE® 407 suggests its use in water handling applications where surface tension reduction is helpful for reduction of injection pressures. MAGNACIDE® 407 is recommended for control of bacteria in waters used for secondary oil recovery and waste water injection systems. Another area of application for MAGNACIDE® 407 is in the control of bacteria in packer fluid.

### TYPICAL PHYSICAL PROPERTIES

|                          |   |
|--------------------------|---|
| Form:                    | Liquid  |
| Specific Gravity @ 60°F: | 0.987   |
| Specific Weight @ 60°F:  | 8.23 lbs/U.S. Gallon  |
| Flash Point (T.C.C.):    | 135°F   |
| Pour Point:              | 36°F  |
| pH:                      | Approximately 8.0   |
| Solubility:              | Soluble in fresh water.<br>Soluble or highly dis-<br>persible in brine. |

Do not use, pour, spill or store near fire or open flame.

### DIRECTIONS FOR USE

It is a violation of federal law to use the product in a manner inconsistent with its label. For use with closed delivery systems only.

Oilfield Injection and Waste Water: MAGNACIDE® 407 should be added to the water handling system at a point of uniform mixing such as the area of addition of make up water to the holding tank.

CONTINUOUS INJECTION: Add MAGNACIDE® 407 at 1 part per 1500 parts water (28 per 1000 bbl water) when system is noticeably fouled.

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When microbial control is evident, add 1 part MAGNACIDE® 407 per 3,000 parts water (14 gal per 1000 bbl water) to maintain control.

**BATCH TREATMENT:** Add MAGNACIDE® 407 at 1 part per 2500 parts water (18 gal per 1000 bbl water) over a period of 6 hours one or more times per week when system is noticeably fouled. When microbial control is evident, add 1 part MAGNACIDE® 407 per 5,000 parts water (9 gal per 1000 bbl water) over a period of 6 hours one or more times per week.

**Oil Well Sanitizing:** Mix 25-55 gallons of MAGNACIDE® 407 with sufficient water to cover the producing interval. Inject down the casing or tubing followed by sufficient overflush to force the treated solution into the formation around the well bore. Shut in the well for 8-24 hours before returning to production.

**Packer Fluid and Drilling Mud:** Use from one-half gallon to one gallon MAGNACIDE® 407 per 100 gallon packer fluid or drilling mud (0.5 to 1.0 % volume).

#### HANDLING INSTRUCTIONS

Active Ingredient: Alkyl\*dimethyl benzyl ammonium chloride  
\*65% C<sub>12</sub>, 25% C<sub>14</sub>, 10% C<sub>16</sub>.

#### DANGER KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

**First Aid** - In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

#### Note to Physician

Probable mucosal damage may contraindicate the use of gastric

lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

JUL 30 1990

BFS

EXTRA COPY

10707-3

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and wild life. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.



#### STORAGE AND DISPOSAL

Prohibitions - Do not contaminate water, food, or feed by storage or disposal.

Storage - This product is corrosive to mild steel. Do not store or transport in unlined metal containers.

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 can not be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Registration Office for guidance.

#### Container Disposal

**METAL CONTAINERS:** 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.

**PLASTIC CONTAINERS:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**General** - Consult federal, state or local disposal authorities for approved alternative procedure.

HC  
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JUL 30 1990

10707-3