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MEMORANDUM

TO: John Ross, Senior Toxicologist
Worker Health and Safety Branch

FROM: Tom Thongsinthusak, Staff Toxicologist (original signed by T. Thongsinthusak)
Worker Health and Safety Branch

DATE: August 21, 1998

SUBJECT: Proposed Exposure Scenarios for Propargite

HSM-98018

(#assigned after original
issuance of memo)

Proposed propargite exposure scenarios for the scoping process are shown in Table 1. The exposure scenarios are essentially based upon the use information between 1991-1995 for different crops and agricultural settings. The majority of uses were in grapes, almond, cotton, corn, and walnut, which accounted for 85%. Uses in nursery (all), greenhouse (all), cherry, clover, peanut, carrot, pear, melon, pumpkin, Christmas tree plantations ranged from 0.00 to 0.35% (3.6 - 6,096 lbs. a.i.). Exposure assessment will be focused on major crops.

The same application method can be used for more than one crop. An air blast application can be used to apply propargite to grapes, almond, peach, etc. Similarly, groundboom and aerial applications can be used for several crops. Therefore, one set of exposure data generated from each application method for one crop is also applicable to other crops.

Dissipation of propargite may not be similar in various crops. Different formulations may also influence dissipation of propargite from foliage surfaces. Thus, exposure of field workers will be estimated for various crops and formulations.

The average lbs. a.i. sold between 1991-1995 for propargite formulations were: Omite[®]-30W (40.9%), Comite[®] (38.9%), Omite[®]-6E (18.5%), Omite[®]-30WS (1.4%), and Omite[®]-CR (0.3%). Exposure scenarios for handlers and field workers will be based upon the first three formulations

(TCW/JohnR/JR-36PPG)

Table 1. Proposed Exposure Scenarios for Propargite

A. PRODUCTION AGRICULTURAL USES

Mixer/loader

air blast, groundboom aerial, (e.g., Omite[®]-30W, Omite[®]-6E, Comite)

Applicator

air blast, groundboorm aerial (e.g., Omite[®]-30W, Omite[®]-6E, Comite)

Flagger

aerial application (e.g., Omite[®]-30W, Omite-6E)

B. FIELD WORKERS

strawberry, beans, peach, nectarine, orange (Omite[®]-30W)

almond (Omite[®]--6E)

strawberry, orange, citrus, beans (Omite[®]-CR)

cotton, corn beans, alfalfa (Comite[®])

Other field workers: cane turner, weeder, cotton scout, cultivator

C. NOTES:

Exposure of residents (adults and children) will not be included because propargite is not destined for uses in home gardens. Exposure of workers in greenhouse, nursery, or field workers involving in other crops, such as cherry, clover, peanut, carrot, pear, melon, pumpkin, and Christmas tree plantations, will not be estimated because of minimal propargite uses.

The exposure estimates will be calculated as ADD (absorbed daily dosage), seasonal average daily dosage (SADD), annual average daily dosage (AADD), and lifetime average daily dosage (LADD). The SADD and AADD will be determined later if these exposure scenarios exist.