

CALCULATIONS: (continued)

$$\text{WHERE Factor} = \frac{\text{Weight Reference Methazole} \times \% \text{ Purity Reference Methazole}}{\text{Absorbance Reference Methazole}}$$

Note 1: The weights given are for the specified 0.5 mm cell. For cells of other thicknesses, adjustment of weights must be made to obtain an absorbance on the standard of about 0.2 - 0.5 (30 - 65% transmittance). Corresponding adjustments of sample weight should also be made.

Note 2: Chloroform solvent over acetone solvent for extracting is necessary due to the mode of treatment for impregnating the granulars as the finished granular formulation. The PROBE is in a water base matrix for application on the granulars. The amount of water present on the granulars is such that if acetone is used the amount of water extracted with PROBE interferes in the IR measurement. Chloroform and water are immiscible.

Note 3: The dried sample must be free of residual CHCl_3 . Chloroform contamination will have an additive effect at the 755 cm^{-1} (13.25 microns) band. Chloroform has a strong absorption at this frequency.

Extraction Procedure of Methazole from Solid PROBE Formulations

Using a Soxhlet Extraction Apparatus and Appropriate Extraction Solvent.

General Procedure: Weigh sample into a single thickness extraction thimble (for wettable powders line thimble with No. 5 Whatman filter paper) sealed in a capped weighing bottle to avoid solvent losses.

Extract sample with approximately 150 ml appropriate extracting solvent in a Soxhlet apparatus for 2 hours using a 250 ml round-bottom flask. Final measuring concentration is 0.1 g in 15 ml acetone.

I. PROBE 3% Granular Formulation

1. Sample weight is 11.0 ± 0.05 g Chloroform (CHCl_3) is the extracting solvent. Soxhlet extraction for 2 hours as outlined in General Procedure. (See Note 2).
2. Strip CHCl_3 under vacuum under moderate temperature (rotary evaporator) and dissolve the concentrate extract in 50 ml acetone using 50 ml pipet for delivery of solvent (See Note 3).
3. Scan the resulting solution in a 0.5 mm NaCl cell measuring the absorbance at 755 cm^{-1} (13.25 microns).

II. PROBE 75% Wettable Powder Formulation

1. Sample weight is 4.0 ± 0.5 g. Acetone is the extracting solvent. Soxhlet extraction for 2 hours as outlined in General Procedure.
2. Reduce extractant volume to 10-15 ml on a steam bath and quantitatively transfer contents into a 250 ml volumetric flask. Bring to volume with acetone. Mix thoroughly.
3. Withdraw a 3.0 ml aliquot with a 3.0 ml volumetric pipet and dilute to 5.0 ml in a 5.0 ml volumetric flask. Mix thoroughly.
4. Scan the resulting solution in a 0.5 mm NaCl cell measuring the absorbance at 755 cm^{-1} (13.25 microns).

VIII. METHAZOLE LABEL INFORMATION

The center (or front) panel must carry the signal word "WARNING" and "KEEP OUT OF REACH OF CHILDREN". The center (or front panel) must also carry the ingredient statement, EPA Registration Number, EPA Establishment Number and the manufacturer's (or distributor's) name and address.

The side (or back) panels should carry the following precautionary statements.

WARNING

Harmful if swallowed, inhaled or absorbed through the skin or eyes. Do not get in eyes, on skin or on clothing. Avoid breathing dust or spray mist. Keep out of the reach of children. Avoid contamination of feed or foodstuff.

In case of skin contact, wash immediately with soap and water. For eyes flush with plenty of water for at least 15 minutes and get medical attention.

Wear natural rubber gloves and protective clothing when handling. Wash hands, arms and face thoroughly with soap and water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

Do not contaminate domestic or irrigation waters. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Observe all precautions on labels of all products used in tank mixtures.

DO NOT USE IN ANY MANNER NOT SPECIFIED ON THIS LABEL.

IMPORTANT

Prevent drift of product to desirable plants. Do not use equipment used for (product name) for any other purpose before thoroughly cleaning. Do not store in direct contact with fertilizers, seeds, insecticides or fungicides.

Do not graze or feed forage from treated areas to livestock.

Do not rotate with any other crops within one year of treatment, except cover crops, which must be plowed under and not grazed.

When applied according to label directions and under normal growing conditions, (product name) will not harm the treated crop. Over-application may result in stunting, crop injury or soil residue. Uneven application of (product name) can result in erratic weed control, or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration, or drought may weaken crop seedlings and increase possibility of damage from (product name). Under these conditions, delayed crop development or reduced yields may result.

CONTAINER DISPOSAL

Do not reuse or burn empty containers. Dispose of empty containers by burying in a safe place away from water supplies.

SAMPLE INGREDIENT STATEMENTS

1. 75% Wettable Powder

ACTIVE INGREDIENTS:

Methazole * 75.0%
Related compounds 3.9%

INERT INGREDIENTS: 21.1%

TOTAL 100.0%

* 2 - (3, 4 - dichlorophenyl) - 4 - methyl - 1,2,4-oxadiazolidine-3,5-dione

2. 5% Granular

ACTIVE INGREDIENTS:

Methazole * 5.00%
Related compounds 0.26%

INERT INGREDIENTS: 94.74%

TOTAL 100.00%

* 2 - (3, 4 - dichlorophenyl) - 4 - methyl - 1,2,4-oxadiazolidine-3,5-dione

USE DIRECTIONS

Formulators using this product are responsible for developing their own use directions and for providing data to support their registrations.