

# *Telopic*

**DSBG**

*The soul of your soil*



**Pre-plant soil  
fumigation**



**agro fresas, s.a.**

# General

Telopic is a multi-purpose fumigant for pre-plant treatment of soil to control nematodes, symphylans and certain soil-borne diseases in cropland. Telopic reduces weed infestation.



# General

## Composition:

1,3 Dichloropropene<sup>(\*)</sup> - 63.4%

Chloropicrin - 34.7%

Inert ingredients - 1.9%

(\*) Telone ® (DowAgrosciences)  
*Telopic* is formulated by DSBG

# General

## Characteristics:

Flash point : 27° c

Boiling point : 93° c

Vapor pressure : 30 mmHg @ 20° c

Solubility in water : 0.2 g / 100g

Specific Gravity : 1.34 @ 23° c

Appearance : Straw-colored liquid

Odor : Irritating odor

# Application Directions

Not for use in greenhouses or other  
enclosed areas

## Soil conditions :

Soil temperature at depth of application  
8° C - 27° C.

# Application Directions

Soil preparation: Soil should be well prepared to a seedbed condition at least 2 - 3 weeks before application date. The soil should be cultivated to a depth of 35 - 40 cm.

The soil should be free of clods and plant residues.

# Application Directions

Soil moisture : It is critical to maintain soil moisture properly before fumigation. The soil must be moist to a depth of at least 35 cm. The amount of moisture needed in this area will vary according to the soil type.

Initial irrigation should start 2 - 3 weeks before fumigation. Small quantities should be added during preparation to reach 60% - 70% of field capacity on the fumigation day.

# Application Directions

**Soil preparation** : The soil should be free of clods. Large clods can reduce effectiveness of Telopic. The field should be free of plant residues .

The soil must be cultivated to a depth of at least 30 cm deep before applying Telopic.





# Application Directions

Placement of fumigant : The application

will be performed with a chisel injection machine.

Telopic may be applied either as a broadcast or row treatment. It must be placed to a depth of at least 30 cm below the final soil surface. Deeper placement is recommended when soil is to be planted with deep-rooted plants.

Spacing between chisels : 30 cm maximum.

# Application Directions

## Packaging:

Telopic is packed in cylinders of 45 , 90 kg or 550 kg ("pigs")

**The Telopic Cylinders must be pressurized with Nitrogen only !**



# Application Directions

In case of pressure drop - repressurize the Telopic cylinder with nitrogen.

Maintain a constant pressure of 5 - 8 bar in the Telopic cylinder, during application, using the nitrogen regulator.



# Application Directions

**Sealing the soil after application:** Immediately after application of Telopic, the soil must be "sealed" to prevent fumigant loss and ensure that an effective concentration of fumigant is maintained within the soil for a period of several days. Sealing can also be improved by applying non-perforated film such as polyethylene, over the entire area or in strips.



# Application Directions

End-Row spillage control : The injector system must be shut off to stop the stream when chisels are raised out of the ground. The applicator must follow instructions on proper operation and maintenance of the system found in the label.



# Application Directions

## Soil Fumigation Interval

Leave the soil undisturbed and unplanted for at least 5 days after application. A longer undisturbed interval is required if the soil becomes cold or wet, and for deep-rooted tree, shrub and vine planting sites.



# Application Directions

## Soil Fumigation Interval

After the fumigation interval, prevent phytotoxicity by allowing the fumigant to dissipate completely before planting the crop.

Keep an interval of 21-30 days from fumigation to planting / seedling.

Total Interval 21 - 31 days		
From Application to Aeration: 5 Days	From Aeration to Planting/Seeding: 16-26 days	

# Application Directions

## Soil Fumigation Interval

Under optimum soil conditions for dissipation, 1 week for each 11-12 Liter per 1000 m<sup>2</sup> is recommended.

Certain seeds may be used as a bioassay to determine if Telopic is still present in the soil at concentrations sufficient to cause plant injury.



# Application Directions

Do not use containers, pumps or other transfer equipment made of aluminum, magnesium or their alloys, as under certain conditions Telopic may be severely corrosive to such metals.

**Do not apply Telopic through any type of irrigation system**



# Approved Uses

Telopic is recommended for control of nematodes, symphylans and wireworms in soils to be planted for nurseries, vegetable and field crops, fruit and nut crops .



# Approved Uses

<b>Crop</b>	<b>Broadcast Application Rates</b>
Vegetable Crops	40 – 50 gr / m <sup>2</sup> *
Field crops	

\* The higher dosage is for heavy soils.

# Approved Uses

**Telopic** may be applied as a preplant soil treatment as a part of a management program for certain **soil-borne diseases** [soil rot of sweet potatoes; Granville wilt, root rot, black shank diseases of tobacco; Verticillium wilt of strawberries, cole crops and mint, pink rot of onions, pod rot of peanuts, Fusarium crown and rot of Tomatoes ], **Plant parasitic nematodes** [root-knot, cyst and others], **Symphylans and wireworms**.

# Approved Uses

Only licensed and authorized applicators should apply Telopic



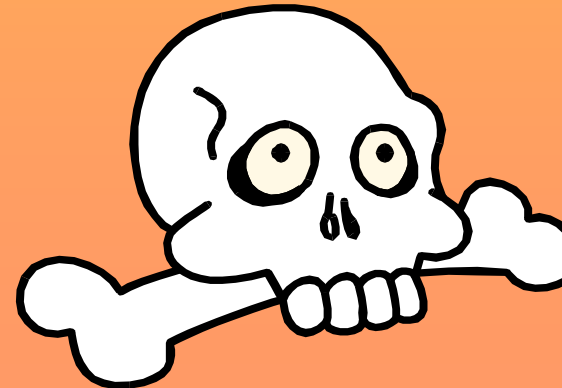
# Fertility Interactions

Telopic fumigation may temporarily raise the level of ammonia, nitrogen and soluble salts in the soil. To avoid injury to certain crops, fertilize when possible as indicated by soil tests made after fumigation. To avoid ammonia injury and/or nitrate starvation to crops grown in high organic soils, do not use fertilizers containing ammonium salts.



# Hazards to Humans and Domestic Animals

- ⇒ Do not swallow any of this product. May be fatal if swallowed.
- ⇒ Do not get in eyes. Causes severe injury.
- ⇒ Do not get on skin. Causes skin burns. May cause allergic skin response
- ⇒ Do not breathe vapor. Prolonged contact may cause lung, liver, and kidney damage and respiratory system irritation.



# Personal Protective Equipment (PPE)

## Chemical-Resistant Materials

PPE constructed of Saranex, Neoprene and Chlorinated Polyethylene provide short-term contact protection or splash protection against liquid in this product.

Longer-term protection is provided by PPE constructed of Viton, Teflon and EVAL barrier laminates.



# Personal Protective Equipment (PPE)

## Chemical-Resistant Materials

Where chemical-resistant materials are required - leather, canvas or cotton materials offer no protection from this product.

Coveralls must be loose-fitting and constructed of woven fabrics, non-woven fabrics or fabrics containing microporous Teflon.

# Handlers in Enclosed Cabs

Applicators and other handlers in enclosed cabs must wear:

⇒ Coveralls

⇒ Shoes and socks

⇒ A full face respirator or canister approved for pesticides

( Unless the cab equipped with a vapor adsorptive filter, as detailed in the product's label )

# Handlers outside Enclosed Cabs

Applicators and other handlers who are not in enclosed cabs must wear:

- ⇒ Coveralls over short-sleeved shirt and short pants
- ⇒ Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- ⇒ Chemical-resistant footwear plus socks
- ⇒ Chemical-resistant headwear for overhead exposure
- ⇒ A full face respirator with an organic-vapor-removing cartridge with a prefilter approved for pesticides or canister approved for pesticides.

# User Safety requirements

## FIRST AID

### *Eye contact.*

Holding the eyelids apart,  
flush eyes promptly with copious flowing  
water for at least 20 minutes.

Get medical attention immediately.

### *Skin contact.*

Wash skin thoroughly with mild soap and plenty  
of water for at least 15 minutes.

Remove contaminated clothing and shoes.

Wash clothing before re-use.

Get medical attention immediately.

# User Safety requirements

## FIRST AID

### *Inhalation:*

Remove person to fresh air.

Keep him quiet and warm.

Apply artificial respiration if necessary and get medical attention immediately.

### *Ingestion:*

If swallowed, wash mouth thoroughly with plenty of water

and give water to drink.

Get medical attention immediately.

# User Safety requirements

- Read the label carefully before applying the product !

Soil fumigation using Telopic must be conducted only according to directions and conditions of use, as described in the product label.

Do not formulate this product into any other end-use products.

- Never fumigate alone
- Wear personal protective equipment


# LOCALIZED APPLICATION IN BEDS IN HUELVA STRAWBERRY CROPS

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## Telopic®

El sustituto del bromuro de metilo en fresa.  
Ensayado por la Junta de Andalucía y el INIA.  
Mismo envase, aplicación y seguridad que bromuro.



Para más información contacte con EUROBROM

o con su distribuidor: **agrofresas, s.a.** (Tel.:959 372 443)

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# LOCALIZED APPLICATION IN BEDS IN HUELVA STRAWBERRY CROPS

Since the 90's the soil desinfection of strawberry fields in Huelva has evolved from the broadcast to the localized application in beds resulting in a saving of produce, irrigation water and labour

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# LOCALIZED APPLICATION IN BEDS IN HUELVA STRAWBERRY CROPS

Similar system than the one currently used for the METHYL-BROMIDE.

Similar cylinder and equipment

Except N<sub>2</sub> presurization needed



# LOCALIZED APPLICATION IN BEDS IN HUELVA STRAWBERRY CROPS

Similar application •  
and level of safety

