



**RESTRICTED USE PESTICIDE**

For retail sale to, and use only by, Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JUN 18 1984

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the use of this product under EPA 1

# SN 578 SOIL FUMIGANT

E.P.A. Registration No. 45639-

**ACTIVE INGREDIENTS:**

1,3-dichloropropene and other related chlorinated hydrocarbons	34.0%
Methyl isothiocyanate	17.0%
Chloropicrin	15.0%
Inert ingredients	34.0%
	100.0%

**KEEP OUT OF REACH OF CHILDREN**



**PELIGRO**

**PRECAUCIÓN AL USUARIO:** Si usted no lee inglés, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

HAZARDOUS VAPOR AND LIQUID CORROSIVE CAUSES IRREVERSIBLE EYE DAMAGE AND BURNS OF SKIN HARMFUL OR FATAL IF INHALED SWALLOWED OR ABSORBED THROUGH SKIN MAY PRODUCE KIDNEY AND LIVER DAMAGE UPON PROLONGED EXPOSURE

Do Not Breathe Vapor Do Not Get In Eyes On Skin Or On Clothing Do Not Take Internally Use Only With Adequate Ventilation Wear Eye and Skin Protection Necessary To Prevent Contact When Handling Wash Thoroughly After Handling And Before Eating Or Smoking.

If protective gear such as boots or gloves, becomes contaminated, immediately wash with soap and water. Never wear protective gear having the odor of SN 578. Remove contaminated clothing and wash thoroughly after use until all odor is gone. Render unusable and dispose of contaminated leather goods, including shoes.

**STATEMENT OF PRACTICAL TREATMENT**

IF INHALED: ...  
IF ON SKIN: ...  
IF IN EYES: ...  
IF SWALLOWED: ...

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONS  
PROTECTED BY U.S. PAT. NOS. 3,205,129-3, 113,908-3, 240,666-3, 265,561

NET CONTENTS, 55 GALLONS

MANUFACTURED BY  
**NOR-AM Chemical Company**  
Wilmington, DE 19803 U.S.A.

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### GENERAL INFORMATION

SN 578 SOIL FUMIGANT is used as a preplant treatment in both field and greenhouse soils to be planted to ornamentals or flowers such as mums, lilies, gladioli, iris, carnations, evergreens, vegetables such as celery, lettuce, garden beets, tomatoes, eggplant, beans, melons, squash, field crops such as tobacco, cotton, potatoes, onions, mint, small fruits such as strawberries, raspberries, fruit trees such as cherry, peach, citrus trees such as orange, lemon.

In the soil SN 578 vaporizes and diffuses helping to control plant parasitic nematodes and harmful fungi (including *Fusarium oxysporum* f. *lycopersici* rare 21) causing damping-off, root-rot and wilt. SN 578 also helps control soil insects such as wireworms, symphids and others. SN 578 helps control weeds such as pigweed, dandelion, lambsquarters, bermudagrass, purslane, crabgrass, quackgrass, spurge, fleasbane, sedge, chickweed, ragweed, mustard, *Poa* spp., smartweed, wild radish, dodder, velvetleaf and sheperdspurse.

### PHYSICAL OR CHEMICAL HAZARDS FLAMMABLE

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME.

DO NOT CUT OR WELD CONTAINER.  
FIRE OR EXPLOSION MAY RESULT IF CONTAINER IS EMPTY.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish and wild life. Do not apply directly to water or wetlands. Do not contaminate water or wetlands by cleaning of equipment or disposal of wastes.

### HANDLING PRECAUTIONS

**DO NOT INHALE VAPORS** - NIOSH or MESA approved respiratory protection should be worn when SN 578 or 150-fumigant is exposed to the atmosphere or when conducting operations which vent to the atmosphere. A NIOSH or MESA approved half face respirator with chemical workers goggles or full face respirators shall be used during small spills, repairs, calculations, transfers, sampling and when working in poorly ventilated areas. After each use, the filter cartridges shall be replaced daily unless otherwise indicated by manufacturer's instructions. Do not breathe through whatever comes first. NIOSH approved cartridges such as a 462504 filter will be adequate for short term situations such as listed above.

Where very low concentrations of vapors might be expected, such as large spills in poorly ventilated areas, a self-contained breathing apparatus should be used.

**DO NOT GET ON SKIN** - When using or working with SN 578, wear clothing covering the body, gloves and heavy footwear. Remove clothing immediately if it gets on skin. Coverings should be protected with clothing and gear that is not worn.

There are no protective clothing or equipment requirements for the use of SN 578. However, if you are working in a poorly ventilated area, you should wear a self-contained breathing apparatus. Do not wear clothing that is made of leather, vinyl, or other materials that may be damaged by the product. Wash your hands thoroughly after use. Do not eat, drink, or smoke while using SN 578. Wash your hands thoroughly after use. Do not use the product in a confined space.

**DO NOT GET IN EYES** - Wear eye protection when using or working with SN 578. If it gets in your eyes, flush with water for at least 15 minutes. Seek medical attention if necessary.

**DO NOT SWALLOW** - Do not eat, drink, or smoke while using or working with SN 578. If you swallow the product, seek medical attention immediately.

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For Medical Emergencies: Call 1-800-FIRE-1199, Fire, Exposure or Accident call 1-800-4-A-G-R-I-C-U-L-E or 1-800-4-AGRICULTURE

### STORAGE, SHIPMENT AND DISPOSAL

**STORAGE** - Store in a cool, dry place. Do not store near heat or open flame. Do not store in a confined space. Do not store in a poorly ventilated area. Do not store in a place where it can be accessed by children or pets. Do not store in a place where it can be accessed by unauthorized personnel.

**SHIPMENT** - Ship in a cool, dry place. Do not ship near heat or open flame. Do not ship in a confined space. Do not ship in a poorly ventilated area. Do not ship in a place where it can be accessed by children or pets. Do not ship in a place where it can be accessed by unauthorized personnel.

**PESTICIDE DISPOSAL** - Do not dispose of in water, soil, or other natural resources. Do not dispose of in a confined space. Do not dispose of in a poorly ventilated area. Do not dispose of in a place where it can be accessed by children or pets. Do not dispose of in a place where it can be accessed by unauthorized personnel.

**CONTAINER DISPOSAL** - Do not reuse original containers. Do not dispose of in a confined space. Do not dispose of in a poorly ventilated area. Do not dispose of in a place where it can be accessed by children or pets. Do not dispose of in a place where it can be accessed by unauthorized personnel.

DO NOT REUSE ORIGINAL CONTAINERS

**DISCLAIMER OF WARRANTIES** - The manufacturer warrants that the product is free from defects in material and workmanship at the time of shipment. The manufacturer does not warrant the product's performance or effectiveness. The manufacturer does not warrant the product's safety. The manufacturer does not warrant the product's quality. The manufacturer does not warrant the product's durability. The manufacturer does not warrant the product's value. The manufacturer does not warrant the product's price. The manufacturer does not warrant the product's availability. The manufacturer does not warrant the product's availability. The manufacturer does not warrant the product's availability.

**DIRECTIONS FOR USE:**

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

**USE PRECAUTIONS:** As with most soil fumigants, application of SN 578 may temporarily raise the level of ammonia nitrogen and soluble salts in the soil which may result in plant injury. This is most likely to occur when heavy rates of fertilizer or fumigant are applied to soils that are either cold, wet, acid or high in organic matter.

Do not add fertilizers containing nitrates until the soil temperature is above 65°F and the crop is well established. Do not allow liquid or vapors to come in contact with lawn and desirable plants, do not apply on areas beneath which roots of desirable plants extend.

Do not use in greenhouses which contain living plants. Do not fumigate if the soil temperature at 3 inch depths is over 90°F.

Avoid reinfestation of treated soil. Do not contaminate treated soil with untreated soil. Do not use transplants or tools which could carry soil-borne pests from infested land. Clean equipment carefully before using.

SN 578 may be corrosive under certain conditions. Flush all applicators with fuel oil or kerosene immediately after use. **DO NOT USE WATER.** Do not use containers or equipment of aluminum, magnesium or their alloys. Close containers tightly.

**TIME OF APPLICATION:** Treatment can be made at any time the soil is workable, fall or winter application is desirable for crops which are planted early in the spring.

**PREPARATION OF SOIL:** For **OPTIMUM CONTROL WITH SN 578 FOLLOW THESE STEPS CAREFULLY.**

(1) Work crop remains into the soil so that they are well decomposed before treatment. (2) In shrub and tree replant sites remove as much of the root system as possible. (3) Break up all clods and loosen soil thoroughly by cultivation one week before treatment. Deep tillage is recommended, particularly for deep-rooted crops. Always work soil deeper than intended application depth. (4) Keep soil moist from the surface to a depth of six inches and maintain in this condition for one week before fumigation. **DO NOT FUMIGATE DRY SOILS.**

**APPLICATION AND DOSAGE:** Use injection type applicators. For broadcast application, set shanks 6" to 8" apart for band treatment, set shanks 8" apart, inject at a depth of 5" to 8".

Pest	Soil Type	Overall (Broadcast) Application		Pow or Band (8 centers) Application
		per acre	per 100 sq. ft.	per chisel per 100 linear ft.
Root rot	Moist	1.5 lbs	2.4 lbs/100 sq ft	40.87 ml
Root rot	Moist to Dry	1.5 lbs	3.7 lbs/100 sq ft	56.14 ml
Wireworm	Moist	1.5 lbs	1.5 lbs/100 sq ft	14.17 ml
Wireworm	Moist to Dry	4.0 lbs	11.4 lbs/100 sq ft	26.34 ml
Fungus gnat	Moist	1.5 lbs	1.0 lbs/100 sq ft	20.2 ml

(1) The above table is based on a soil temperature of 60°F to 70°F. If the soil temperature is below 60°F, increase the dosage by 25%. If the soil temperature is above 70°F, decrease the dosage by 25%.  
 (2) For broadcast application, use a minimum of 4" depth and a maximum of 8" depth.  
 (3) For band application, use a minimum of 4" depth and a maximum of 8" depth.  
 (4) For injection application, use a minimum of 5" depth and a maximum of 8" depth.  
 (5) For application to soil with high organic matter content, increase the dosage by 25%.

**IMMEDIATELY** after application, the soil should be kept moist to a depth of 6 inches. This can be done by watering or rain. Do not allow the soil to dry out. Do not apply to soil which is too dry or too wet.

**FUMIGATION PERIOD** - The fumigation period should be 14 days. During this period, the soil should be kept moist to a depth of 6 inches. Do not apply any other soil treatments during this period.

**AERATION PERIOD** - After the fumigation period, the soil should be aerated to a depth of 6 inches. This can be done by tilling or using a soil aerator. Do not apply any other soil treatments during this period.

**DO NOT PLANT WHEN THE ODOR OF THE FUMIGANT IS STILL DETECTABLE**

**DO NOT RE-USE CONTAINER**

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U.S. ENVIRONMENTAL PROTECTION AGENCY <small>OFFICE OF PESTICIDE REGISTRATION AND DISTRIBUTION</small> <small>WASHINGTON, D.C. 20460</small>  <b>NOTICE OF PESTICIDE:</b> <small>REGISTRATION</small> <small>RENEWAL</small> <small>RE-EVALUATION</small>	EPA REGISTRATION NO.	DATE OF ISSUANCE JUN 18 1984
	TERM OF LABEL	NAME OF PESTICIDE PRODUCT
NAME AND ADDRESS OF REGISTRANT (SEE INSTRUCTIONS)  <div style="text-align: center;"> <b>BEST DOCUMENT AVAILABLE</b> </div>		
<p><b>NOTE:</b> Changes in labels, formulas, different substances from that accepted in connection with this registration must be submitted and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product call attention to the U.S. EPA registration number.</p> <p>On this date, the following products, formulas, and/or substances, hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act:</p> <p>A copy of the label(s) accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is not a guarantee of the safety and/or efficacy of the product by this Agency. In order to protect health and the environment, the Agency retains the right to suspend or cancel the registration of a pesticide in accordance with the Act. It is the responsibility of any manufacturer in connection with the registration of a product under this Act to determine that the name of the product is not identical to the name of any other product if it has been covered by other registration.</p>		
<input type="checkbox"/> ATTACHED TO...		DATE
SIGNATURE AND ADDRESS OF REGISTRANT		DATE

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The registration record for the product named above has been amended to include the additional product name listed below. It is understood that the label will be identical with that of the basic label accepted under this registration except for product name.

Verlex 201

Wentz W. Jacoby  
Product Manager (21)  
Municide-Herbicide Branch  
Registration Division (TS-767)

Enclosures

PP/EPD:DCP-17092;Jacoby:WJ:Payon:557-2226;PP-1:5/21/84;Del.6/4/84

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