

4581-174

01/25/1962

1/3

(Center Panel)

With letter &
application

DEC 11 1961

Net Gal.

PENCO®

HERBICIDE 191

Contains 2 lb. 3,6-endoxo-hexahydrophthalic acid per gallon

ACTIVE INGREDIENTS

*alkyl **
Mono(N,N dimethyle~~amine~~) salt of
3,6-endoxo-hexahydrophthalic acid....53.0%
~~Aliphatic Derivative Solvents.....23.4%~~

INERT INGREDIENTS.....~~22.6%~~ 47.0 %

TOTAL 100.0%

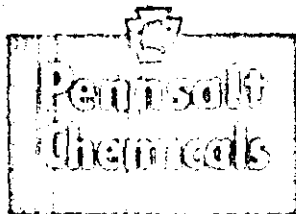
* alkyl groups as derived from coconut oil

U.S. patent 2,900,411

ACCEPTED

JAN 25 1962

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND ROBOTICIDE ACT
FOR ECONOMIC POISON REGISTERED
UNDER NO. 4581-174



PENCO Agricultural Chemicals

SOLD BY

AGRICULTURAL CHEMICALS DIVISION

PENNSALT CHEMICALS CORPORATION

AURORA, ILL.
FRESNO, CALIF.
PHILADELPHIA, PA.

TACOMA, WASHINGTON
MONTGOMERY, ALA.
PORTLAND, ORE.

BRYAN, TEXAS
LOS ANGELES, CALIF.
WENATCHEE, WASH.
TAKOMA, WASH.

CAUTION

Fish may be killed dosages in excess of 0.3 ppm.

Avoid contact with or drift to desirable plants or crops as injury may occur.

Do not store this material where it may contaminate seeds, feeds, or foodstuffs.

Wash spray equipment out after each operation.

Do not use treated water for irrigation or agricultural sprays on food crops *for watering livestock* or domestic purposes within the following periods:

Up to 0.5 ^{0.3} ppm	7 days after application
Up to 3.0 ppm	14 days after application
Up to 5.0 ^{5.0} ppm	25 days after application

Necessary approval and/or permits should be obtained in States where required.

WARNING

MAY BE FATAL IF SWALLOWED.

IRRITATING TO SKIN, NOSE, EYES, AND THROAT.

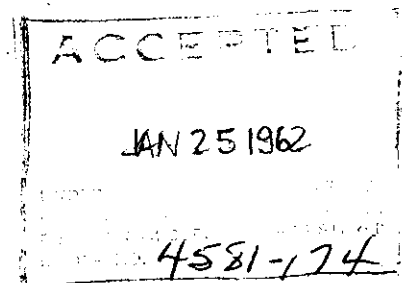
MAY BE ABSORBED THROUGH SKIN.

Do not get in eyes, on skin, or on clothing. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes; for eyes get medical attention. If swallowed, give cold milk or cold water. Call a doctor immediately. Bathe and change clothing at least daily while using.

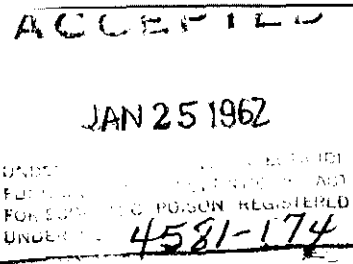
NOTICE

(Non-Warranty)

V V V



5-9223-01



GENERAL INFORMATION

PENCO Herbicide 191 is a liquid concentrate soluble in water and is a highly effective aquatic herbicide and algicide for use in irrigation and drainage canals, lakes, ponds ^{and} ~~and other problem areas~~ to control the following weeds and algae: Najas, Elodea, Coontail, Potamogeton, Milfoil, sp. Zanichella, Vallisneria, Cladophora, Pithophora, Spirogyra and Chara *when weeds are actively growing*

IRRIGATION AND DRAINAGE CANALS

(Do not use more than two applications per season)

Apply PENCO Herbicide 191 as a surface spray with uniform coverage or inject under the surface of the water. The minimum contact time with weeds for optimum results should be two hours.

Heavy infestation - Apply at rate of 4.0 to 6.75 gal. per acre foot (equivalent to 3-5 ppm). See table below.

Moderate to light infestation - Apply at rate of 1.4 to 2.7 gal. per acre foot (equivalent to 1-2 ppm). See table below.

GALLONS OF PENCO HERBICIDE 191 REQUIRED TO TREAT 1 MILE OF DITCH, 1 FOOT DEEP

ppm	Width of Ditch or Canal									
	4	6	8	10	12	14	16	18	20	22
1	.7	1.0	1.30	1.7	1.9	2.3	2.6	2.9	3.3	3.6
2	1.3	2.0	2.60	3.3	3.9	4.6	5.2	5.9	6.5	7.2
3	2.0	2.8	3.90	4.9	5.9	6.8	7.8	8.8	9.8	10.8
4	2.6	3.9	5.25	6.6	7.8	9.1	10.4	11.8	13.1	14.4
5	3.2	4.9	6.55	8.2	9.7	11.5	13.1	14.7	16.4	18.0

Note: ~~1.1~~ pt. PENCO Herbicide 191 per acre foot equals 0.1 ppm of 3,6-endoxo-hexahydro-phthalic acid.

LAKES AND PONDS

Algae control: Cladophora, Pithophora, Spirogyra, and ~~possibly other algae~~ ^{Chara} can be controlled with applications of .55 to 2.25 pints per acre foot (0.05 to 0.2 ppm) applied as a uniform surface spray or injected under water surface. Pithophora may require 0.2 ppm or higher. Dosages may be increased to .38 to 1.2 gals. (0.3 to .8 ppm) where greater longevity of control is desired and for marginal treatments. Repeat treatments ~~may be necessary to control algae regrowth.~~ *when algal growth reappears.*

Submerged aquatics: Due to the toxicity to fish the use of PENCO Herbicide 191 for submerged aquatic weeds is suggested only by commercial applicators on a marginal or sectional rather than over-all type treatment. Use .65 to 3.4 gals. per acre foot (0.5 to 2½ ppm) on a marginal treatment either sprayed on or injected below the surface. Use dosages over 1 ppm only on very narrow margins or in areas where some fish kill is not objectionable.

Do not treat more than 1/10 of the lake at one time with doses in excess of 1 ppm.