

25-MAR-2002

((LABEL))

COMMERCIAL

20 L

**RO-NEET® 7.2-E
Emulsifiable Liquid**

**REGISTRATION NO. 10178
PEST CONTROL PRODUCTS ACT**

**Selective pre-plant herbicide for use in mineral soils to control
certain weeds in sugar beets, red beets and spinach.**

GUARANTEE:
cycloate 720 Grams per Litre

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

CEDAR CHEMICAL CORPORATION
C/O Suite #840, 105-150 Crowfoot Cres, N.W., Calgary, AB T3G 3T2

**PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN**

MAY BE HARMFUL IF SWALLOWED

Avoid contact with skin, eyes and clothing. Avoid inhalation of spray mist. Wear rubber gloves, goggles and protective clothing. Wash with soap and water after use. Do not contaminate food and feed. Keep away from heat and flame.

FIRST AID

Immediately start the procedures given below and contact a poison control centre, a physician, or the nearest hospital for further assistance.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED: Immediately give several glasses of water but DO NOT induce vomiting. If vomiting does occur, give fluids again. Have a

physician determine if condition of patient will permit evacuation of stomach. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eyelids apart and flush with plenty of water for 15 minutes. Get medical attention.

IF ON SKIN: Flush eyelids apart and flush with plenty of water for 15 minutes. Get medical attention if skin irritation occurs. Wash clothing before reuse.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

EMERGENCY TELEPHONE NUMBERS

ALL HOURS (613) 787-5620 ONLY FOR HEALTH AND ENVIRONMENTAL INFORMATION (NORAC CONCEPTS INC.)

ENVIRONMENTAL HAZARDS

Do not contaminate irrigation water, pools, streams and water used for domestic purposes or fish.

STORAGE

Protect from temperatures below -6°C. Product crystallizes at lower temperatures. Warm or store at higher temperatures, and mix to redissolve crystals and assure uniformity before use. Do not use or store near heat or open flame. Do not contaminate water, food, feed or fertilizer by storage or disposal.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Cedar Chemical (see EMERGENCY TELEPHONE NUMBER) for further information.

For spills and leaks: contain the liquid with dikes or inert material (soil, clay, kitty litter etc.) Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces: sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste

container.

On Soil: remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements. For more information on the disposal of waste and the clean up of spills, contact the regional office of Environmental Protection, Environment Canada.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label and subject thereto. The buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

CEDAR CHEMICAL CORP.
5100 POPLAR AVENUE, SUITE 2414
MEMPHIS, TN 38137

FOR MORE INFORMATION CONTACT:
CEDAR CHEMICAL CORPORATION
C/O Suite #840, 105-150 Crowfoot Cres, N.W., Calgary AB T3G 3T2

((BOOKLET))

RO-NEET® 7.2-E
Emulsifiable Liquid

Selective pre-plant herbicide for use in mineral soils to control certain weeds in sugar beets, red beets and spinach.

CAUTION POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

GUARANTEE:
cycloate ...720 Grams per litre

REGISTRATION NO. 10178
PEST CONTROL PRODUCTS ACT

C93/A-7

COMMERCIAL
Net Contents 20 L

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. MAY BE HARMFUL IF SWALLOWED

Avoid contact with skin, eyes and clothing. Avoid inhalation of spray mist. Wear rubber gloves, goggles and protective clothing. Wash with soap and water after use. Do not contaminate food and feed. Keep away from heat and flame. Do not apply by air.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-800-375-4648 or www.cropro.org

FIRST AID

Immediately start the procedures given below and contact a poison control centre, a physician, or the nearest hospital for further assistance.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED: Immediately give several glasses of water but **do not** induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Never give anything by mouth to an unconscious or convulsing person.

IF IN EYES: Hold eyelids apart and flush with plenty of water for 15 minutes. Get medical attention.

IF ON SKIN: Flush all affected areas with plenty of water for several minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Wash clothing before use.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

EMERGENCY TELEPHONE NUMBERS

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Protect from temperatures below -6 EC. Product crystallizes at lower temperatures. Warm or store at higher temperatures, and mix to redissolve crystals and assure uniformity before use. Do not use or store near heat or open flame. Do not contaminate water, food,

feed or fertilizer by storage or disposal.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Zeneca Agro (see EMERGENCY TELEPHONE NUMBER) for further information.

FOR SPILLS AND LEAKS - contain the liquid with dikes of inert material (soil, clay, kitty litter etc.. Absorb the spill onto inert material and shovel into a sealable waste container

ON HARD SURFACES- sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

ON SOIL - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements. For more information on the disposal of waste and the clean up of spills, contact the Provincial Regulatory Agency or the manufacturer.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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3. Make the empty, rinsed container unsuitable for further use.
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PRODUCT INFORMATION

RO-NEET 7.2-E is a selective herbicide which is mixed (incorporated) into the soil for control of weeds listed on this label. RO-NEET 7.2-E controls weeds as their seeds germinate by interfering with normal germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

DIRECTIONS FOR USE

RO-NEET 7.2-E is recommended for use on mineral soils, only.

Applied according to directions and under normal growing conditions, RO-NEET 7.2-E will not harm the treated crop. During germination and early growth, extended periods of unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, the use of certain soil applied systemic insecticides, highly saline or alkaline soil conditions, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. RO-NEET 7.2-E used under these abnormal conditions could result in crop injury.

Do not tank mix RO-NEET 7.2-E with insecticides or fungicides unless the compatibility has been tested and proven to be satisfactory prior to use.

Do not graze or cut for fodder treated immature crops. There are not sufficient data available to support such use.

WEEDS CONTROLLED	
RO-NEET 7.2-E is recommended for control of the following:	
ANNUAL GRASSES: Barnyard Grass (Water Grass) Crab Grass Foxtails (Yellow, Green) Wild Oats	BROADLEAF WEEDS: Hairy Nightshade Lamb's-quarters Redroot Pigweed Purslane Henbit (Deadnettle) Black Nightshade

The above listed annual weeds will be controlled only if the application is made when conditions are favourable for weed seed germination and growth.

WEEDS CONTROLLED
PERENNIAL WEED: Yellow Nutsedge (Nut Grass)

Existing stands of nut grass must be turned under and chopped thoroughly before treatment. Prior to planting, RO-NEET 7.2-E must

be thoroughly mixed into the soil for nut grass control.

APPLICATION DIRECTIONS

Application: Use standard, low-pressure (150 to 350 kPa) boom and ground spray equipment. DO NOT USE SINGLE NOZZLE BOOM-JET TYPE SPRAYERS. Spray equipment should be carefully calibrated before use and checked frequently during application to be sure nozzles are free from clogging and delivering a uniform spray pattern. Apply, UNIFORMLY, the recommended rate of RO-NEET 7.2-E in 200 to 400 litres of water per hectare. Avoid overlaps that will increase RO-NEET 7.2-E dosage above recommended limits because plant injury may occur. The soil should be well worked and dry enough to permit thorough mixing with incorporation equipment.

Fluid Fertilizer Tank Mix: RO-NEET 7.2-E may be combined with fluid (solution, slurry or suspension) fertilizer. However, physical compatibility with these fertilizers must be determined before combining in the spray tank. See Appendix I giving directions for these combinations. Even though found to be compatible, constant agitation is necessary to keep the RO-NEET 7.2-E evenly mixed with the liquid fertilizer.

Impregnation On Dry Bulk Fertilizers: RO-NEET 7.2-E may be impregnated on many dry bulk fertilizers for use on sugar beets. RO-NEET 7.2-E impregnated on dry bulk fertilizers must be applied and incorporated into the soil before planting. Uniform distribution of RO-NEET 7.2-E on fertilizer particles and uniform application are necessary to assure good results. See Appendix II, RO-NEET 7.2-E Impregnation on Dry Bulk Fertilizers, for special instructions regarding directions for impregnation and use.

Soil Mixing (Incorporation): Immediately (within minutes) after application, thoroughly mix RO-NEET 7.2-E into the soil to a depth of 5 to 7.5 centimetres. Thorough soil mixing is necessary for good weed control.

INCORPORATION EQUIPMENT

For Broadcast (Overall Applications):

- A. **Hooded Power-Driven Rotary Tiller** - Set teeth close enough together so all soil is picked up. Uniformly mix to a depth of 5 to 7.5 centimetres.
- B. **Disc** - Mix to a depth of 5 to 7.5 centimetres by setting tandem or offset discs at 10 to 15 centimetre depth. On heavy and medium soils, cross disc C twice at right angles). On light soils, disc once followed by harrowing for additional mixing

and to level the seed bed.

For Band (Row) Application:

Use a Hooded Power-Driven Tiller or a Hooded Ground-Driven Rotary Tiller to uniformly mix to a depth of 5 to 7.5 centimetres.

Rolling: Under most conditions, the treated area should be firmly rolled between the incorporation unit and the planters.

PLANTING

For maximum weed control benefits, crops should be planted or seeded immediately after application. Do not use a drag behind the planter as it may concentrate RO-NEET 7.2-E over the seed row and cause crop injury.

CULTURAL PRACTICES FOLLOWING APPLICATION

RO-NEET 7.2-E is not persistent in the soil and susceptible weeds germinating later during the growth season may not be controlled. Shallow cultivation or approved post-emergence herbicides may be necessary to control these susceptible weeds that escape control by RO-NEET 7.2-E, as well as those weeds not susceptible to RO-NEET 7.2-E. Do not cultivate deeper than the depth of the herbicide incorporation. For banded treatments, use shields to prevent the movement of untreated soil into the treated row.

APPLICATION RATES

FOR CONTROL OF ANNUAL GRASSES AND BROADLEAF WEEDS LISTED IN CROPS SHOWN BELOW. (For other details, see under DIRECTIONS FOR USE.)

SOLID BROADCAST APPLICATION:

CROP	WHEN TO APPLY	RO-NEET 7.2-E LITRES/HECTAR E	REMARKS
Sugar Beets	Fall, before the ground freezes, or spring pre-plant soil incorporation.	6.25 to 7.75	Use on Mineral Soil, ONLY. Use lower rate on light sandy soils. Use higher rate on heavier soil.

Red Beets	Pre-Plant soil incorporation	4.75 to 6.25	Use on Mineral Soil, ONLY. Use lower rate on light sandy soils. Use higher rate on heavier soil.
Spinach	Pre-Plant soil incorporation	4.75	Use on Sandy Mineral Soils ONLY.

BAND APPLICATION

The rates given above are for solid coverage basis. For band application, reduce the amount of RO-NEET 7.2-E proportionately depending on the row spacing and band width to be treated. Do not use band application on rocky ground because thorough incorporation is not possible.

APPENDIX I

COMPATIBILITY TESTING OF RO-NEET 7.2-E WITH FLUID FERTILIZERS.

The following procedure is suggested for determining whether RO-NEET 7.2-E may be combined with a specific fluid fertilizer for sprayer application.

Materials Required:

1. RO-NEET 7.2-E
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix: Compex*, Sponto 168-D*, Unite* or equivalent. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration.
4. Two one-litre, wide-mouth, glass jars with lids or stoppers
5. Graduated pipet or cylinder
6. Measuring cup (250 mL)

Procedure:

1. Pour 500 mL of the fluid fertilizer into each of the litre jars.
2. Add adjuvant to one of the jars and mix (see next rate table).
3. Add the RO-NEET 7.2-E to both jars (see next rate table).
4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times.
5. Inspect the surface and body of the mixtures -
(A) Immediately after completing the jars inversions,

(B) After allowing the jars to stand quietly for 30 minutes,
(C) And then again after turning the jars upside down ten times.

If a uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with ten jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with the adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first to the fluid fertilizer at a rate of 375 mL per 100 litres of fluid fertilizer; foaming can be minimized by using moderate agitation.

If nondispersible oil, sludge or clumps form in the mixtures, the combination should not be used.

* Compex, Kalo Laboratories, Kansas City, Missouri; Sponto 168-D, Whitco Chemical Corporation, Houston, Texas; Unite, Hopkins Agricultural Chemical Company, Madison, Wisconsin.

**Compatibility Test Table For
RO-NEET 7.2-E And Adjuvant*
With The Fluid Fertilizer**

Litres of Fluid Fertilizer To Be Applied Per Hectare	mL of RO-NEET 7.2-E** To Be Added To 500 mL of Fertilizer
100	25.0
150	17.0
200	12.5
250	10.0
300	8.5
400	6.5

- * A typical adjuvant rate of use is 375 mL per 100 L of fluid fertilizer. Two (2) millilitres of adjuvant should be added to 500 mL of fluid fertilizer in order to equal a rate of 375 mL per 100 litres.

- ** Based on a rate of 5 litres of RO-NEET 7.2-E per hectare in the fluid fertilizer volumes indicated. Adjust amount of pesticide proportionately to correspond with the intended field rate (e.g. for field rate of 9.0 litres of RO-NEET 7.2-E in 250 litres fluid fertilizer per hectare, add 18 mL ($9L/5L \times 10 \text{ mL}$) RO-NEET 7.2-E to each jar containing 500 mL of fluid fertilizer for compatibility testing purposes).

APPENDIX II

RO-NEET 7.2-E IMPREGNATION ON DRY BULK FERTILIZERS

CAUTION: Nitrate fertilizers represent a potential explosive hazard, particularly in contact with organic substances such as RO-NEET 7.2-E. Do not impregnate RO-NEET 7.2-E on ammonium nitrate. Do not use fertilizers containing ammonium, potassium or sodium nitrate. Such mixtures may cause explosion and fire.

Regulations relating to dry bulk fertilizer blending, registration, labelling and application are the responsibility of the individual and/or company selling the RO-NEET 7.2-E fertilizer mixtures. RO-NEET 7.2-E may be impregnated on many dry bulk fertilizers (see following table) and applied and incorporated into the soil before planting for the control of labelled grasses and broadleaf weeds in sugar beets.

All RO-NEET 7.2-E label and supplementary literature instructions and precautions regarding rates per hectare, soil type and soil incorporation, application and other directions must be followed.

Test results have shown RO-NEET 7.2-E on many dry bulk fertilizers gives weed control equal to RO-NEET 7.2-E applied as a spray in water or liquid fertilizer. However, uniform impregnation of the pesticide on the dry fertilizer particles and uniform application in the field are necessary to assure good results.

A minimum of 200 Kg and a maximum of 800 Kg of recommended fertilizer ingredients (see following table) impregnated with the appropriate amount of RO-NEET 7.2-E must be applied per hectare.

For impregnating the pesticides on dry fertilizers, use a closed rotary-drum type mixer equipped with suitable spraying equipment. The spray nozzles should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. The RO-NEET 7.2-E should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with RO-NEET 7.2-E provides a satisfactory dry mixture.

If the absorptive capacity is not adequate, use of a drying agent is required to provide dry, free-flowing mixtures.

For mixtures to be used in spinning-disc applicators, Microcel E calcium silicate powder (Manville, Filtration and Minerals) is recommended for use as a drying agent.

For mixtures to be used in pneumatic applicators, Microcel E or Agsorb 16/30 RVM-MS granular-clay (Oil-Dri Corporation) is recommended for use as a drying agent.

The drying agent should be added separately and uniformly to the prepared pesticide-fertilizer mixture in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally, less than 2% Microcel E or 5% Agsorb 16/30 RVM-MS by weight is required.

The amount of RO-NEET 7.2-E actually required in the manufacture of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amounts of RO-NEET 7.2-E actually contained in the mixture applied to the soil represent the correct rates of use.

Bulk fertilizer impregnated with RO-NEET 7.2-E should be applied immediately, NOT STORED. All bulk containers should be tightly covered while the products are being transported and applied to reduce chances of RO-NEET 7.2-E loss via volatilization.

(1) Recommended Dry Fertilizer Ingredients For Use With RO-NEET 7.2-E			
	N	P	K

Amonium sulfate	21	0	0
Ammonium phosphate-sulfate	16	20	0
Diammonium phosphate	18	46	0
Monoammonium phosphate	11	56	0
Potassium chloride	0	0	60
Potassium sulfate	0	0	52
Single superphosphate	0	20	0
Triple superphosphate	0	46	0
Urea	45	0	0

NOTE: Sul-Po-Mag, K-Mag and 11-48-0 have been shown to be compatible with RO-NEET 7.2-E and are recommended for use.

(2) Rate Chart For The Impregnation of Dry Bulk Fertilizers With RO-NEET 7.2-E			
Rate of RO-NEET 7.2-E Per Hectare			
	4.75 L Per Ha	6.25 L Per Ha	7.75 L Per Ha.
Fertilizer Rate (kg) Per Hectare	Litres/RO-NEET 7.2-E/ 1000 Kg OF FERTILIZER		
200	23.8	31.3	38.8
250	19.0	25.0	31.0
300	15.8	20.8	25.8
350	13.6	17.9	22.2
400	11.9	15.6	19.4
450	10.6	13.9	17.2
500	9.5	12.5	15.5
550	8.6	11.4	14.1
600	7.9	10.4	12.9
650	7.3	9.6	11.9
700	6.8	8.9	11.1

750	6.3	8.3	10.3
800	5.9	7.8	9.7

RO-NEET 7.2-E Physical Data:

Specific Gravity 20/20 EC: 0.976
Flashpoint 75.6 E C (Tagliabue Closed Cup)
Viscosity Sprayable down to -3EC
Freeze Point -6.7EC (seeded)

Resistance Management Recommendations

For resistance management, Ro-Neet 7.2E is a group 8 herbicide. Any weed population may contain or develop plants naturally resistant to Ro-Neet 7.2E and other Group 8 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed:

TO DELAY HERBICIDE RESISTANCE:

- Where possible, rotate the use of Ro-Neet 7.2E or other Group 8 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouring, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact

representatives at (613) 787-5620 or www.noracconcepts.com

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Memphis, TN 38137

FOR MORE INFORMATION CONTACT:

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Calgary, AB T3G 3T2

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