

**SPECIMEN LABEL**

PH25 45639-162

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**ACCEPTED**  
Apr - 5 1984  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, registered for the pesticide under Reg. No. 45639-162

**FOR AGRICULTURAL USE ONLY**

# NA 307

## SUGAR BEET HERBICIDE

Postemergence Herbicide for Control of Weeds in Sugar Beets

**ACTIVE INGREDIENTS:**

Phenmedipham*	7.0%
Desmedipham**	7.0%
Ethofumesate***	7.0%

**INERT INGREDIENTS:**

<b>TOTAL:</b>	79.0%
	<u>100.0%</u>

Contains 1.8 lbs. active ingredient per gallon. Contains petroleum distillates.

\*3-methoxycarbonylamino-phenyl-3-methylcarbanilate

\*\*Ethyl m-hydroxycarbanilate carbanilate (ester)

\*\*\*2-ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methanesulfonate

EPA Reg. No. 45639-162

EPA Est. No. 407-MN-1

### KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

#### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Do not induce vomiting. Call a physician or poison control center. If medical assistance cannot be given immediately, drink promptly a large quantity of milk, egg white or a solution of oil if these are not available. Large quantities of water. Avoid alcohol. Do not attempt to give anything by mouth to an unconscious or convulsing person. See note to physician below.

**NOTE TO PHYSICIAN:** This product contains aromatic and aliphatic hydrocarbons which, if aspirated into the lungs during induced vomiting, may cause chemical pneumonia and pulmonary edema. Large quantities should be removed by gastric lavage with an emetic agent. Avoid use of oil soluble solvents. The use of oil soluble solvents are contraindicated in eyes and probably in other areas of the body. Contact may irritate the eyes and skin.

**IF IN EYES:** Hold eye closed and flush with a steady, gentle stream of water for 15 minutes. Call physician.

**THIS ECHO SYSTEM™ CONTAINER IS THE SOLE PROPERTY OF NOR-AM CHEMICAL COMPANY.**

**SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONS**



AGRIBUSINESS DIVISION  
Little Falls Centre One  
2711 Centerville Road  
Wilmington, DE 19808

#### NET CONTENTS:

U.S. Patent No. 3,404,975  
U.S. Patent No. 3,692,820  
U.S. Patent No. 3,689,507

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
(and Domestic Animals)  
DANGER**

**PRECAUTIONARY STATEMENTS**  
CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

**PERSONAL PROTECTIVE EQUIPMENT**  
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category F on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt & long pants
- Chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or Viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

THIS PESTICIDE IS TOXIC TO FISH AND AQUATIC ORGANISMS. FOR TERRESTRIAL USES, DO NOT APPLY DIRECTLY TO WATER, OR TO AREAS WHERE SURFACE WATER IS PRESENT, OR TO INTERTIDAL AREAS BELOW THE MEAN HIGH WATER MARK. DRIFT AND RUNOFF FROM TREATED AREAS MAY BE HAZARDOUS TO FISH AND AQUATIC ORGANISMS IN ADJACENT AQUATIC SITES. DO NOT CONTAMINATE WATER THROUGH DISPOSAL OF EQUIPMENT WASHWATERS.

**PHYSICAL OR CHEMICAL HAZARDS**  
DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

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**STORAGE AND DISPOSAL**

**STORAGE:** Store in original container and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame. Protect NA 307 from freezing temperatures.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL: ECHO-SYSTEM SVR**  
Return Procedure: Return the ECHO-SYSTEM SVR container clean (outside only) and empty to the place of business from which the NA 307 was purchased.

**IN CASE OF FIRE, LEAKY OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-9300.**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read the entire Directions for Use before using this product. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Territory, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate or butyl rubber or nitrile rubber or Viton
- Shoes plus socks
- Protective eyewear

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When used as directed, NA 307 is selective in beets past the two-true leaf stage. Beets may be severely injured if treated before the two-true leaf stage. The stage of growth of the weeds is very important for satisfactory control. For best results, spray when the weeds are at the two-true leaf stage. Best results are obtained when the weeds are actively growing and are not under water or heat stress.

**Mixing the Spray: Make sure the Sprayer is CLEAN.** NA 307 contains sufficient wetting agents for optimum coverage. Do not add additional wetting agents or other spray adjuvants. Add sufficient water to fill the lines. Then add the desired amount of NA 307 and the remaining quantity of water with the bypass agitator running. Bypass agitation is sufficient. Mechanical agitation is not necessary. Only use freshly prepared spray emulsions.

Always spray immediately after preparing the spray solution. Prepare only enough spray solution to last less than four hours.

### GENERAL INFORMATION

NA 307 is a selective postemergence herbicide for use in sugar beets (including beets grown for seeds) for the control of the following weeds.

Annual bluegrass .....	<i>Poa annua</i>
Annual sowthistle .....	<i>Sonchus oleraceus</i>
Black nightshade .....	<i>Solanum nigrum</i>
Hairy nightshade .....	<i>Solanum sarrachoides</i>
Canary grass .....	<i>Phalaris canariensis</i>
Coast fiddleneck .....	<i>Amsinckia intermedia</i>
Common chickweed .....	<i>Stellaria media</i>
Common lambsquarters .....	<i>Chenopodium album</i>
Common ragweed .....	<i>Ambrosia artemisiifolia</i>
Green foxtail .....	<i>Setaria viridis</i>
Groundcherry .....	<i>Physalis lanceifolia</i>
Kochia* .....	<i>Kochia scoparia</i>
Ladysthumb .....	<i>Polygonum persicaria</i>
London rocket .....	<i>Sisymbrium irio</i>
Nettleleaf goosefoot .....	<i>Chenopodium murale</i>
Pennsylvania smartweed ..	<i>Polygonum pennsylvanicum</i>
Pigeon grass (yellow foxtail) .....	<i>Setaria glauca</i>
Prostrate pigweed .....	<i>Amaranthus gracizans</i>
Purslane .....	<i>Portulaca oleraceus</i>
Redroot pigweed .....	<i>Amaranthus retroflexus</i>
Shepherdspurse .....	<i>Capsella bursa-pastoris</i>
Wild buckwheat .....	<i>Polygonum convolvulus</i>
Wild mustard .....	<i>Brassica kaber</i>

\* Spray kochia while in the rosette stage, less than 1" in diameter. For best results, spray when the weeds are at the two-leaf stage.

**USE PRECAUTIONS: DO NOT APPLY NA 307 TO SUGAR BEETS LATER THAN 75 DAYS PRIOR TO HARVEST.**

**DO NOT EXCEED A TOTAL OF 13.0 PINTS NA 307 PER ACRE PER SEASON.**

**DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.**

**NA 307 MAY CAUSE BEET INJURY IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:**

- ▲ Rapid climatic changes from cool, overcast days, to hot (85° or over) bright days. When the air temperature is, or is likely to be, above 80°F on the day of spraying, application should be made in the evening when the temperature is lower.
- ▲ Windy conditions or drought.
- ▲ Frost within seven days following treatment.
- ▲ Use of a preplant or preemergence herbicide or other chemicals.
- ▲ Insect or disease injury.
- ▲ Close cultivation.

If stress conditions are present delay application in order to give plants a chance to recover.

If extreme weather conditions are of short duration, delay spraying until the end of such a period. If NA 307 applications must be made on days with extreme temperature and/or brightness, delay spraying until evening.

**DO NOT OVERTREAT:** The use of higher than recommended rates may cause beet injury.

Do not spray while dew is present.

Rainfall within 6 hours of spraying may reduce weed kill. Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

**IMPORTANT:** NA 307 may cause temporary growth retardation and/or chlorosis or tipburn on sugar beets. Beets usually resume normal growth within 10 days.

### RATE OF APPLICATION

**By Ground:** Apply NA 307 at the rate of 3.25 to 5.0 pints in 20 to 50 gallons water broadcast basis. For band application, see dosage chart.

**By Air:** Apply NA 307 at the rate of 3.25 to 5.0 pints per acre using 5 to 15 gallons of spray per acre.

Apply the 3.25 to 5.0 pint rates only to sugar beets past the two-true leaf stage. Use the 5.0 pint rate only on well established beets which are not under stress.

In order to avoid phytotoxic spray drift to non-target crops during application of NA 307, the following buffer zones should be observed:

Cotton, Potatoes, Sunflowers,	
Sorghum, Wheat .....	50 feet
Blackeye beans, Cabbage, Flax .....	100 feet
Lettuce, Rape, Tomatoes .....	300 feet

**DO NOT APPLY WHEN WIND SPEED IS OVER 10 MILES PER HOUR. AVOID APPLICATIONS WHEN CONDITIONS FAVOR DRIFT.**

To avoid excessive phytotoxicity to fall-planted sugar beets in Arizona and south of the Tehachapi Mountains in California when temperatures are above 85°F, apply NA 307 at the rate of 3.25 pints per acre (broadcast equivalent). Evening applications are recommended.

For further information, contact your County Agricultural Agent, Farm Advisor or NOR-AM Chemical Company.

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**REPEAT APPLICATION OF NA 307:** For control of later germinating weeds, make a second application of NA 307. Use 3.25 to 5.0 pints of NA 307. Allow at least 7 days between first and second applications. Apply when beets have at least 4 leaves. For best results, use the higher rate and spray when weeds are at the two-true leaf stage. Apply lower rates when the beets are under stress as explained on the previous page, the General Information section.

**SPLIT (LOW RATE) APPLICATIONS:** Split (low rate) applications of NA 307 may be applied to sugar beets to control early germinating weeds. The first spray must be applied when the earliest emerging weeds have reached cotyledon size. See Chart 1, below, for broadcast rates. See Chart 2, below, for equivalent band rates. For band applications, apply in 5-10 gallons of water per acre. Any weeds which are not completely controlled by the first treatment will usually be checked and controlled by repeat applications. The repeat application should be made 5 to 7 days after the preceding application or when another flush of weeds germinates. If the second application is delayed, conventional treatment as described above will be necessary.

NA 307 broadens and enhances the control of troublesome weeds, including the following:

**ANNUAL BROADLEAF WEEDS**

- Annual sowthistle ..... *Sonchus oleraceus*
- Black nightshade ..... *Solanum nigrum*
- Hairy nightshade ..... *Solanum sarrachoides*
- Coast fiddleneck ..... *Amsinckia intermedia*
- Common chickweed ..... *Stellaria media*
- Common lambsquarters ..... *Chenopodium album*

- Common ragweed ..... *Ambrosia artemisiifolia*
- Groundcherry ..... *Physalis lanceifolia*
- Kochia\* ..... *Kochia scoparia*
- Ladysthumb ..... *Polygonum persicaria*
- London rocket ..... *Sisymbrium irio*
- Nettleleaf goosefoot ..... *Chenopodium murale*
- Pennsylvania smartweed .. *Polygonum pennsylvanicum*
- Prostrate pigweed ..... *Amaranthus gracizans*
- Purslane ..... *Portulaca oleraceus*
- Redroot pigweed ..... *Amaranthus retroflexus*
- Shepherdspurse ..... *Capsella bursa-pastoris*
- Wild buckwheat ..... *Polygonum convolvulus*
- Wild mustard ..... *Brassia kaber*

\* Spray Kochia while in the rosette stage, less than one inch in diameter.

**ANNUAL GRASS WEEDS**

- Annual bluegrass ..... *Poa annua*
- Canarygrass ..... *Phalaris canariensis*
- Green foxtail ..... *Setaria viridis*
- Pigeon grass (Yellow foxtail) ..... *Setaria glauca*

See Chart 1, below, for broadcast rates. See Chart 2 for equivalent band rates.

**CHART 1  
DOSAGE CHART FOR BROADCAST  
APPLICATION**

Sugar Beet Stage	Pints/Acre Broadcast NA 307
Cotyledon	1.75
2 leaf	2.25
4 leaf	3.25

**CHART 2  
DOSAGE CHART FOR BAND APPLICATION**

Broadcast Equivalent	Band Width	Band Rate — Row Spacing		
		22"	28"	30"
1.75 pints/acre	5"	6.4 fl. oz.	5.0 fl. oz.	4.7 fl. oz.
	7"	8.9 fl. oz.	7.0 fl. oz.	6.5 fl. oz.
2.25 pints/acre	5"	8.2 fl. oz.	6.4 fl. oz.	6.0 fl. oz.
	7"	11.5 fl. oz.	9.0 fl. oz.	8.4 fl. oz.
3.25 pints/acre	5"	11.8 fl. oz.	9.3 fl. oz.	8.7 fl. oz.
	7"	16.5 fl. oz.	13.0 fl. oz.	12.1 fl. oz.
5.0 pints/acre	5"	18.2 fl. oz.	14.3 fl. oz.	13.3 fl. oz.
	7"	25.5 fl. oz.	20.0 fl. oz.	18.7 fl. oz.

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**IMPORTANT: READ BEFORE USE**

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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Worker Protection Standard  
**WPS**  
Product labeling includes  
wording required by  
Worker Protection  
Standard