HU 25 - 196 F-78 Form Approved, OMB No. 2070-0060. Please read instructions on reverse before completing form. Approval expires 05-31-98 **OPP Identifier Number** Registration United States **Environmental Protection Agency Amendment** 249329 Washington, DC 20460 Other Application for Pesticide - Section I 2. EPA Product Manager 3. Proposed Classification 1. Company/Product Number 7969-88 Robert Taylor Restricted 4. Company/Product (Name) <u>Torpedo Herbicide</u> 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) BASE Corporation P.O. Box 13528 Research Triangle Park, NC (b)(i), my product is similar or identical in composition and labeling LANGE OF THE PROPERTY OF THE STATE OF THE ST to: 1、1、1、1、1·300 1 1、1数 64 1 1/20 1 1 1 1 1 1 1 1 1 1 EPA Reg. No. Check if this is a new address **Product Name** ាម្ចី នៅ អាចរបស់ដូច មិច អំពួក Section 😉 📙 នេះគេការ ខែនេះការមិន ខណ Final printed labels in response to still at the court of the best of the Agency letter dated Resubmission in response to Agency letter dated "Me Too" Application. Notification - Explain below. Other - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of change in packaging: add directions for use with Prodigy delivery system. See attachment for compliance statement as per PR Notice 95-2. Section - III 1. Material This Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging Water Soluble Packaging 2. Type of Container Metal Yes Plastic No No No Glass if "Yes" Paper if "Yes" No. per No. per \* Certification must Unit Packaging wgt. Package wgt Other (Specify) container container : be submitted 3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions On Label Label 2⅓ gallon On Labeling accompanying product Container gal Other 6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Section - IV 1. Contact Point | Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Telephone No. (Include Area Code) Name Charlotte Sanson Sr. Registration Spec. ·919-361-5483 6. Data Application Certification \*\* Received I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete." I certify that the statements i have made on discount and an action and be punishable by fine or imprisonment or ු (Stamped) both under applicable law. 3. Title Sr. Registration Specialist

Charlotte Sanson

October 20, 1995

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# Torp herbicide

Active Ingredient:

\*Equivalent to 1 pound per gallon

EPA Reg. No. 7969-88

KEEP OUT OF REACH OF CHILDREN.

### CAUTION

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Promptly drink a large quantity of milk, egg whites, gelation solution, or, if these are not available, large quantities of water. Avoid alcohol.

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions For Use for information about this standard.

Net contents: 2.5 gallons

BASF Corporation P.O. Box 13528, Research Triangle Park, NC, 27709

## Precautionary Statements HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

Causes moderate eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment: Some materials that are chemicalresistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

 Long-sleeved shirt and long pants Chemical-resistant gloves, such as barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils

 Shoes plus socks 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** Users should:

 Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

 Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

 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** 

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. Do not contaminate water when disposing of equipment washwaters.

**Endangered Species Concerns** This product is toxic to 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. Do not contaminate water when disposing of equipment wash waters.

**Directions For Use** 

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

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 Tribe, 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 protec-tive equipment (PPE), and restrict-ed-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 12 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, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils

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Shoes plus socks

In Case of Emergency

In case of large-scale spillage regarding this product call: CHEMTREC.....800-424-9300 BASF Corporation.. 800-832-HELP

In case of medical emergency regarding this product, call:

 Your local doctor for immediate treatment

Your local poison control center (hospital)

3. BASF Corporation 800-832-HELP

Storage and 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 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. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of

in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned,

stay out of smoke.

General Information

Torpedo® herbicide is a selective broad spectrum postemergence herbicide that may be used to control and suppress annual and perennial grass weeds in bearing or nonbearing orange, lemon, lime, grapefruit, tangerine, and tangerine hybrid crops.

Torpedo does not control sedges or broadleaf weeds. Because all grass crops (such as sorghum, corn, small grains, and rice), as well as ornamental grasses such as turf, can be injured or killed by Torpedo, avoid all direct or indirect

contact with any desired grass plants.

Nonbearing Citrus:

Citrus crops are tolerant to Torpedo, but under some conditions, a slight leaf speckling/leaf burn can occur. Citrus plants will outgrow these symptoms and later growth is not affected.

**Bearing Citrus:** 

Torpedo should be directed away. from citrus foliage as well as devel-, ' oping and mature, fruit hecause injury may occur ander certain conditions.

Consult Restrictions and Limitations for the preharvest

Control Symptoms: Torpedo\* herbicide rapidly enters the plant through the foliage and translocates throughout the plant. Control symptoms exhibited by grasses progress from a slowing and stopping of growth (generally within 2 days), to reddening of foliage, and leaf tip burn. Later, bumback of the foliage occurs. These symptoms will generally be observed within 3 weeks, depending on environmental condi-

Prodigy™ System Torpedo may be suppled in the Prodigy System, a unique, 120gallon mini-bulk closed delivery system. It consists of a self-discharging tank that does not require any pumping mechanism, and has a dry lock connector which protects the

user from exposure to tank contents.

Do not refill **Prodigy System**. Return **Prodigy System** to BASF

for cleaning and refilling.

Torpedo in a dedicated, returnable Prodigy System can only be used with the closed Prodigy System in which it comes packaged. See Prodigy System Operating Procedure below.

#### **Prodigy System Operating** Procedure

Install a male dry lock connector

to the spray tank.

- Connect the female dry lock connector (at the end of the hose attached to the tank) with the male dry lock connector installed on the spray tank.
- Turn on the nitrogen gas supply. Set measuring meter to zero.
- Turn on the tank manifold until the desired amount of product. as indicated on the measuring meter, has been discharged into the spray tank.

Turn off the tank manifold to stop the discharge of product into the sprayer tank.

Disconnect the female dry lock. connector on the tank hose from the male dry lock connector on the spray tank.

Turn off the nitrogen gas supply when the Prodigy System is empty, operation is completed or tank is ready to be returned to the point of purchase.

Application Information Apply **Torpedo** to actively growing

grasses before they exceed the maximum growth stage in Tables 1 and 2.

Thorough coverage of grass foliage is essential because the effectiveness of Torpedo depends on the absorption and movement of Torpedo throughout the plant. For this to occur, enough leaf surface must be treated to absorb Torpedo, and the grass must be actively growing to translocate Torpedo to the roots and buds.

**Ground Applications** Spray equipment: Torpedo

should be applied by handgun or boom application only. Direct the nozzles toward the grass foliage. Application to the soil is ineffective. Heavy tree growth that covers and protects grass weeds from spray coverage may reduce the activity of Torpedo.

Nozzle selection: Use standard high-pressure pesticide hollow cone or flat fan nozzles. Do not use flood or whirl chamber nozzles.

Spray galionage: On a broadcast basis, 10-20 gallons of spray solution per acre should be used. Under most conditions, 10 gallons per

acre is optimum.

Spray pressure: Adjust pressure to 40-60 psi (measured at the nozzle) when using standard high-pressure hollow cone or flat fan nozzles. Other spray equipment: Do not apply Torpedo with control drop applicator (CDA) nozzles because erratic coverage can cause inconsistent weed control.

Do not use selective application equipment such as recirculating sprayers, wiper applicators, or shielded equipment.

Addition of Crop Oil Concentrate

A nonphytotoxic crop oil concentrate (commonly referred to as crop oil concentrate) should always be added to the spray tank. The crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria:

be nonphytotoxic

 contain only EPA-exempt ingredients

 provide good mixing quality in the jar test (see next section)

 be successful in local experience. The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers that provide good mixing quality.

Highly refined vegetable oils have been observed to be more satisfactory than unrefined vegetable oils. For additional information, see Jar Test for Estimating Suitability of Oil Concentrates.

Rate of Crop Oil Concentrate: 1% by volume

Mixing

Fill the tank of a thoroughly clean sprayer half to two-thirds full with clean water. Start agitation and add oil concentrate; allow to mix thoroughly. Add Torpedo and the remaining volume of water. Apply Torpedo soon after mixing. Maintain constant agitation during application.

Jar Test for Estimating Suitability of Oil Concentrates

1) Water supply: Use only water from the intended source and at the source temperature.

- 2) Amount of water in jar: For 20 gallons per acre spray volume, use 31/3 cups (800 ml) of water. For 10 gallons per acre spray volume, use 12/3 cups (400 ml) of water. For 5 gallons per acre spray volume, use 5/6 cup (200 ml) of water. For other spray volumes, adjust proportionately to above.
- 3) Amount of herbicide and oil concentrate to add: Add 1 teaspoon (5 ml) of herbicide and oil concentrate for each pint of recommended label rate.
- 4) Add components in following sequence, gently mixing between component additions: a) Crop oil concentrate b) Torpedo

5) Cap jar, invert 10 cycles, let stand for 15 minutes, evaluate.

6) Evaluation: An ideal tank mix combination will be uniform, thus, the suitability of the crop oil concentrate is questionable if any of the following are observed:

Free oil at the surface-film or globules.

Flocculation-fine particles which may be suspended in the liquid or found as a precipitated layer at the bottom of the jar.

Clabbering-thickening texture (coagulated) resembling yogurt or a curdlike texture as with cottage cheese.

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Attention! Clean the sprayer thoroughly before and after applying Torpedo\* herbicide, particularly if a herbicide with the potential to injure the crop was used. Failure to clean the sprayer thoroughly after applying Torpedo may result in injury to any grass crop subsequently sprayed, such as com, sorghum, small grains, rice, and turf.

Fill the sprayer with clean water and add a commercial sprayer cleaner or a surfactant/adjuvant at the recommended rate on its label. Circulate the cleaning solution through the entire sprayer system. Spray approximately half the tank solution through the hoses, booms, and nozzles to clean these parts. Drain the tank and rinse the total system thoroughly several times with clean water.

## Recommendations for Grass Control — Citrus

Apply to actively growing grasses before tillering or seed head formation

Follow Water Volume and Spray Pressure recommendations. In irrigated areas, it may be necessary to irrigate before treating with Torpedo to ensure active weed growth.

Always add crop oil concentrate at 1% by volume.

Spot Treatment Application
To control or suppress grasses when using knapsack sprayers or high-volume equipment (handguns or other suitable nozzle arrangement), prepare a solution of Torpedo plus oil concentrate in water according to Table 3 or 4, Spot Treatment Application. The best spray application will be a fine spray that will cover the leaves but not drench them and run off. By keeping the spray gallonage low, a relatively concentrated solution (1.5-2.25%) of Torpedo is used. The

best performance is obtained 10-20

gallons of spray solution per acre.

Do not make spot treatments in

addition to broadcast treatments.

Table 1. Annual Grass Control-Broadcast Application

	Torpedo (rate per acre)*		Crop Oil
Grass	Grass (up to 6")	Grass (up to 12")	Concentrate (rate)
Barnyardgrass Crabgrass, Large , Smooth Foxtalls: Giant , Green , Yellow Goosegrass Johnsongrass, Seedling Junglerice Millet, Wild Proso Orchardgrass, Seedling Panicum, Fall , Texas Shattercane/Wildcane Signalgrass , Broadleaf Sprangletop, Red Tall Fescue, Seedling Witchgrass Woolly Cupgrass	2.25 pints	3.75 pints	1% by volume
* Repeat applications as ne	eded Do not anni	more than 15 pin	e ner season

Table 2. Perennial Grass Suppression-Broadcast Application

Grass	Maximum Size	Torpedo (rate per acre)*	Crop Oil Concentrate (rate)
Bermudagrass (wiregrass)	Up to 6" runners	3.75 pints	
Johnsongrass, Rhizome	15-20"	3.70 0.110	1% by yolume
Guineagrass	Guineagrass 6" 8"		170 by voicinio
Torpedograss	6" 8"	2.25 pints 3.75 pints	
* Repeat application	ons as needed. Do not a	apply more than 15 pin	ts per season.

Table 3. Annual Grass Control-Spot Treatment Application Concentration in Spray Solution\*

	Torpedo**		Crop Oil
Grass	Grass (up to 6")	Grass (up to 12")	Concentrate
See annual grasses listed in Broadcast Application Table.	1.5%	2.25%	1%

<sup>\*</sup> Refer to **Solution Table** for preparation of desired spray solution volume. \*\* Repeat applications as needed.

Table 4. Perennial Grass Suppression-Spot Treatment Application Concentration in Spray Solution\*

Grass	Maximum Size	Torpedo**	Crop Oil Concentrate
Bermudagrass (wiregrass)	Up to 6" runners	2.25%	<u> </u>
Johnsongrass, Rhizome	15-20"	2.25%	1% by volume
Quackgrass	6-8"	2.25%	
Wirestern Muhly	Up to 6*	1.5%	1

<sup>\*</sup> Refer to **Solution Table** for preparation of desired spray solution volume. \*\* Repeat applications as needed.

Table 5. Solution Table

Desired Spray	Amount of Torpedo or Crop Oil Concentrate to be Added for Solution			
Solution Volume	Torpedo (1.5%)	Torpedo (2.25%)	Crop Oil Concentrate (1%)	
1 gallon 3 gallons 5 gallons	1.9 fluid ounces 5.8 fluid ounces 9.5 fluid ounces	2,9 fluid ounces 8.75 fluid ounces 14.5 fluid ounces	1.3 fluid ounces 3.75 fluid ounces 6.4 fluid ounces	

Restrictions and Limitations Citrus at all stages of growth is tolerant to **Torpedo® herbicide**. Do not apply to grasses under stress, such as stress due to lack of moisture, herbicide injury, mechanical injury or cold temperatures, as unsatisfactory control may result. Do not apply Torpedo if rainfall is expected within 1 hour following application as grass control will probably be unsatisfactory. Do not apply **Torpedo** within 15 days of harvesting fruit. Physical incompatibility, reduced weed control, or crop injury may result from mixing Torpedo with other pesticides, (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers.

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BASF does not recommend using **Torpedo** tank mixes other than those listed on BASF labels, supplemental labels, or technical bulletins. Local agricultural authorities may be a source of information when using other than BASF-recommended combinations. Do not apply more than a total of 15 pints of **Torpedo** per acre in one season (including spot treatments). **Torpedo** may be applied to citrus

**Torpedo** may be applied to citrus by ground equipment only. Do not apply this product through any type of irrigation system. Citrus pulp and waste may be fed to animals.

Do not allow applications of **Torpedo** to come in contact with developing or mature fruit.