

PM 50 241-346

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Leaflet

SAHARA™ CP herbicide

A CO-PACK PRODUCT FOR BAREGROUND VEGETATION CONTROL
Individual Components of the SAHARA CO-PACK are NOT For Resale

| HERBICIDE I EPA Reg. No. 19713-274-241 | | HERBICIDE II EPA Reg. No. 241-346 | |
|--------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------|--------|
| ACTIVE INGREDIENT | | ACTIVE INGREDIENT | |
| Diuron (3-(3,4-Dichlorophenyl)-1,1-dimethylurea) | 80.0% | Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid*) | 28.7% |
| INERT INGREDIENTS | 20.0% | INERT INGREDIENTS | 71.3% |
| TOTAL | 100.0% | TOTAL | 100.0% |
| (1 pound contains 0.8 active pounds of diuron) | | *Equivalent to 22.6% or 2 pounds acid per gallon (1 gallon contains the equivalent of 2.0 pounds of imazapyr) | |

Each SAHARA CO-PACK contains two, 11.25 pound bags of HERBICIDE I and one jug containing 1.125 gallons of HERBICIDE II.

Refer to the individual product labels for Precautionary Statements, Worker Protection Standard Requirements, Storage and Disposal and Environmental Hazards information.

In case of emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

See next page for Additional Precautionary Statements

AMERICAN CYANAMID COMPANY
AGRICULTURAL PRODUCTS DIVISION
SPECIALTY PRODUCTS DEPARTMENT
WAYNE, NJ 07470 ©1995

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ACCEPTED

AUG 23 1995

U.S. Dept. of Agriculture
Forest Service
Forest and Rangeland
Protection Act
Approved under
EPA Reg. No. 241-346

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GENERAL INFORMATION

SAHARA CP is a co-pack of HERBICIDE I and HERBICIDE II to be mixed with water and a spray adjuvant and applied as a spray solution to noncropland areas such as railroads, pipeline and highway rights-of-way (including pavement edges, guardrails, signposts, and delineators), utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks, and other similar areas where bare ground is desired. For mixing instructions of SAHARA CP, refer to the Mixing Instructions section of this label.

SAHARA CP will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species and SAHARA CP will provide residual control of weeds which germinate in the treated areas. This product may be applied either preemergence or postemergence to the weeds; however, postemergence application is the method of choice in most situations, particularly for perennial species. For maximum activity, weeds should be growing vigorously at the time of postemergence application and the spray solution should include a spray adjuvant (for specific recommendations see the adjuvant section of this label).

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

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DIRECTIONS FOR USE

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

This labeling must be in possession of the user at the time of herbicide application.

SAHARA CP should be used only in accordance with recommendations on this label and where referenced on the container labels. Keep containers closed to avoid spills and contamination.

APPLICATION INSTRUCTIONS FOR BAREGROUND USES

SAHARA CP controls many annual and perennial weeds when applied either preemergence or postemergence (See the weeds controlled section for a list of susceptible weeds).

SAHARA CP should be dissolved in water and applied with properly calibrated equipment to deliver the desired gallons per acre of spray volume in a uniformly distributed spray pattern across the treated area. Length of control may be rainfall dependent. See table below for suggested rates according to average annual rainfall for your region.

Ensure that spray equipment maintains adequate agitation to keep SAHARA CP in solution.

MIXING INSTRUCTIONS

SAHARA CP is to be mixed with water using the following steps:

1. Fill spray tank one-half full with clean water and start agitation or bypass system.
2. While agitating add both bags HERBICIDE I followed by one jug of HERBICIDE II.
3. Add any surfactant (see ADJUVANT section) or anti-foaming agents.
4. Add any tank-mix partners.
5. Continue to agitate and fill the remainder of the tank with water.

SAHARA CP Use Rate Recommendations

| Average <u>Annual Rainfall</u> | Suggested acres treated <u>per SAHARA CO-PACK</u> |
|-----------------------------------|------------------------------------------------------|
| Less than 15 inches | 3 - 4.5 |
| Between 15 - 35 inches | 2 - 4 |
| Greater than 35 inches | 1.5 - 3 |

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(Insert Rainfall Map Here)

Postemergence Applications: Always use a spray adjuvant (See adjuvant section of this label) when making a postemergence application. For optimum performance on tough to control perennial weeds, applications should be made at a total volume of 100 gallons per acre or less in combination with 1 quart per acre of a methylated seed oil. For quicker burndown or brown-out of target weeds, SAHARA CP may be tank-mixed with products such as Roundup¹ or Finale² (See the tank-mix section of this label for other products and specific recommendations).

Spot Treatments: SAHARA CP may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation. To prepare the spray solution, thoroughly mix in each gallon of water at least 0.5 lbs. of HERBICIDE I with 6 fl. ounces of HERBICIDE II plus an adjuvant. Do not exceed 15 pounds of HERBICIDE I or 96 fl ounces of HERBICIDE II per acre. For increased burndown, include Roundup, Finale, or similar products (See the tank-mix section of this label for other products and specific recommendations).

TANK MIXES

SAHARA CP may be tank-mixed with Roundup, Krovar³ I, Hyvar³ X, Oust³, Gaflon⁴, Finale, MSMA, Banvel⁵, Vanquish⁵, or PENDULUM[®]. Tank-mixes with 2,4-D or products which contain 2,4-D, have resulted in reduced performance of perennial weed control.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes.

Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities or the drip line.

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²Trademark of Hoechst AG

³Trademark of E.I. Du Pont de Nemours and Company

⁴Trademark of Dow Chemical Company

⁵Trademark of Sandoz Ltd.

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ADJUVANTS

Postemergence applications of SAHARA CP require a spray adjuvant.

Nonionic Surfactants: Use a nonionic surfactant at the rate 0.25% v/v or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 and having at least 70% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

Methylated Seed Oils or Vegetable Oil Concentrates: Instead of a surfactant, a vegetable-based seed oil concentrate may be used at the rate of 1.5 to 2 pints per acre. Research indicates that these oils may aid in the deposition and uptake of SAHARA CP under moisture or temperature stress.

Silicone-Based Surfactants: See manufacturer's label for specific rate recommendations. Silicone-based surfactants may reduce the surface tension of the spray droplets allowing greater spreading on the leaf surface as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake.

Fertilizer/Surfactant Blends: Nitrogen-based liquid fertilizers such as 28%N, 32%N, 10-34-0, or ammonium sulfate, may be added at the rate of 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant or vegetable/seed oil concentrate. The use of fertilizers in a tank mix without a nonionic surfactant is not recommended.

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WEEDS CONTROLLED BY SAHARA CP

SAHARA CP will provide preemergence or postemergence control with residual control of the following target vegetation species at the rates listed. Residual control refers to control of newly germinating seedlings in both annuals and perennials. In general, annual weeds may be controlled by preemergence or postemergence applications of SAHARA CP; whereas, for established biennials and perennials postemergence applications of SAHARA CP are recommended. SAHARA CP should be used only in accordance with the recommendations on this label and where referenced on the container labels.

GRASSES¹

| <u>COMMON NAME</u> | <u>SPECIES</u> | <u>GROWTH HABIT²</u> |
|--------------------------|------------------------------------|---------------------------------|
| Annual bluegrass | (<u>Poa annua</u>) | A |
| Annual ryegrass | (<u>Lolium multiflorum</u>) | A |
| Annual sweet vernalgrass | (<u>Anthoxanthum odoratum</u>) | A |
| Bahiagrass | (<u>Paspalum notatum</u>) | P |
| Barnyardgrass | (<u>Echinochloa crusgalli</u>) | A , |
| Beardgrass | (<u>Andropogon spp.</u>) | P |
| Bermudagrass | (<u>Cynodon dactylon</u>) | P |
| Big bluestem | (<u>Andropogon gerardii</u>) | P |
| Broadleaf signalgrass | (<u>Brachiaria platyphylla</u>) | A |
| Canada bluegrass | (<u>Poa compressa</u>) | P |
| Cattail | (<u>Typha spp.</u>) | P |
| Cheat | (<u>Bromus secalinus</u>) | A |
| Cogongrass | (<u>Imperata cylindrica</u>) | P |
| Crabgrass | (<u>Digitaria spp.</u>) | A |
| Dallisgrass | (<u>Paspalum dilatatum</u>) | P |
| Downy brome | (<u>Bromus tectorum</u>) | A |
| Fall panicum | (<u>Panicum dichotomiflorum</u>) | A |
| Feathertop | (<u>Pennisetum villosum</u>) | P |
| Fescue | (<u>Festuca spp.</u>) | A/P |
| Foxtail | (<u>Sctaria spp.</u>) | A |
| Goosegrass | (<u>Eleusine indica</u>) | A |

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Grass Weeds Controlled, continued

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|--------------------|-----------------------------------|---------------------|
| Guineagrass | (<u>Panicum maximum</u>) | P |
| Italian ryegrass | (<u>Lolium multiflorum</u>) | A |
| Johnsongrass | (<u>Sorghum halepense</u>) | P |
| Kentucky bluegrass | (<u>Poa pratensis</u>) | P |
| Kyllinga | (<u>Cyperus brevifolius</u>) | A |
| Lovegrass | (<u>Eragrostis spp.</u>) | A/P |
| Maidencane | (<u>Arundinaria amabilis</u>) | P |
| Orchardgrass | (<u>Dactylis glomerata</u>) | P |
| Paragrass | (<u>Brachiaria mutica</u>) | P |
| Phragmites | (<u>Phragmites australis</u>) | P |
| Prairie cordgrass | (<u>Spartina pectinata</u>) | P |
| Prairie threeawn | (<u>Aristida oligantha</u>) | P |
| Quackgrass | (<u>Agropyron repens</u>) | P |
| Rattail fescue | (<u>Vulpia myuros</u>) | A |
| Reed canarygrass | (<u>Phalaris arundinacea</u>) | P |
| Ricegrass | (<u>Oryzopsis hymenoides</u>) | A |
| Saltgrass | (<u>Distichlis stricta</u>) | P |
| Sand dropseed | (<u>Sporobolus cryptandrus</u>) | P |
| Sandbur | (<u>Cenchrus spp.</u>) | A |
| Smooth brome | (<u>Bromus inermis</u>) | P |
| Sprangletop | (<u>Leptochloa spp.</u>) | A |
| Timothy | (<u>Phleum pratense</u>) | P |
| Torpedograss | (<u>Panicum repens</u>) | P |
| Vaseygrass | (<u>Paspalum urvillei</u>) | P |
| Velvetgrass | (<u>Holcus lanatus</u>) | A |
| Wild barley | (<u>Hordeum spp.</u>) | A |
| Wild oats | (<u>Avena fatua</u>) | A |
| Wirestem muhly | (<u>Muhlenbergia frondosa</u>) | P |
| Witchgrass | (<u>Panicum capillare</u>) | A |

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BROADLEAF WEEDS CONTROLLED¹

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|------------------------------|-------------------------------------|---------------------|
| Arrowwood | (<u>Pluchea sericea</u>) | A |
| Ageratum | (<u>Asteraceae houstonianum</u>) | P |
| Broom snakeweed ³ | (<u>Gutierrezia sarothrae</u>) | P |
| Bull thistle | (<u>Cirsium vulgare</u>) | B |
| Burdock | (<u>Arctium spp.</u>) | B |
| Camphorweed | (<u>Heterotheca subaxillaris</u>) | P |
| Canada thistle | (<u>Cirsium arvense</u>) | P |
| Carolina geranium | (<u>Geranium carolinianum</u>) | A |
| Carpetweed | (<u>Mollugo verticillata</u>) | A |
| Clover | (<u>Trifolium spp.</u>) | A/P |
| Cocklebur | (<u>Xanthium strumarium</u>) | A |
| Common chickweed | (<u>Stellaria media</u>) | A |
| Common ragweed | (<u>Ambrosia artemisiifolia</u>) | A |
| Corn spurry | (<u>Spergula arvensis</u>) | P |
| Dandelion | (<u>Taraxacum officinale</u>) | P |
| Dayflower | (<u>Commelina spp.</u>) | A/P, |
| Desert Camelthorn | (<u>Alhagi pseudalhagi</u>) | P |
| Diffuse knapweed | (<u>Centaurea diffusa</u>) | A |
| Dock | (<u>Rumex spp.</u>) | P |
| Dogfennel | (<u>Eupatorium capillifolium</u>) | A |
| Filaree | (<u>Erodium spp.</u>) | A |
| Fleabane | (<u>Erigeron spp.</u>) | A |
| Giant ragweed | (<u>Ambrosia trifida</u>) | A |
| Goldenrod | (<u>Solidago spp.</u>) | P |
| Grey rabbitbrush | (<u>Chrysothamnus nauseosus</u>) | P |
| Gromwell | (<u>Lithospermum spp.</u>) | A |
| Groundcherry | (<u>Physalis spp.</u>) | A/P |
| Hawksbeard | (<u>Crepis spp.</u>) | A |
| Hoary vervain | (<u>Verbena stricta</u>) | P |
| Horsenettle | (<u>Solanum carolinense</u>) | P |
| Horseweed | (<u>Conyza canadensis</u>) | A |
| Indian mustard | (<u>Brassica juncea</u>) | A |
| Japanese bamboo | (<u>Polygonum cuspidatum</u>) | Γ |
| Knawel | (<u>Scleranthus annuus</u>) | A |
| Kochia | (<u>Kochia scoparia</u>) | A |
| Lambsquarters | (<u>Chenopodium album</u>) | A |
| Lespedeza | (<u>Lespedeza spp.</u>) | P |
| Little mallow | (<u>Malva parviflora</u>) | B |

Broadleaf Weeds Controlled, continued

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|---------------------------------|---------------------------------------|---------------------|
| Marigold | (<u>Tagetes</u> spp.) | P |
| Milkweed | (<u>Asclepias</u> spp.) | P |
| Miners lettuce | (<u>Montia perfoliata</u>) | A |
| Morningglory | (<u>Ipomoea</u> spp.) | A/P |
| Mullein | (<u>Verbascum</u> spp.) | B |
| Nettleleaf goosefoot | (<u>Chenopodium murale</u>) | A |
| Oxeye daisy | (<u>Chrysanthemum leucanthemum</u>) | P |
| Pennycress | (<u>Thlaspi</u> spp.) | A |
| Pepperweed | (<u>Lepidium virginicum</u>) | A |
| Pigweed | (<u>Amaranthus</u> spp.) | A |
| Pineapple weed | (<u>Matricaria matricarioides</u>) | P |
| Plantain | (<u>Plantago</u> spp.) | P |
| Pokeweed | (<u>Phytolacca americana</u>) | P |
| Prickly sida | (<u>Sida spinosa</u>) | A |
| Primrose | (<u>Oenothera kunthiana</u>) | P |
| Puncturevine | (<u>Tribulus terrestris</u>) | A |
| Purple loosestrife ³ | (<u>Lythrum salicaria</u>) | P |
| Purslane | (<u>Portulaca</u> spp.) | A |
| Ragweed | (<u>Ambrosia</u> spp.) | A |
| Rush skeletonweed ³ | (<u>Chondrilla juncea</u>) | B |
| Russian knapweed | (<u>Centaurea repens</u>) | P |
| Russian thistle | (<u>Salsola kali</u>) | A |
| Saltbush | (<u>Atriplex</u> spp.) | A |
| Sesbania | (<u>Sesbania</u> spp.) | A |
| Sicklepod | (<u>Cassia obtusifolia</u>) | A |
| Silverleaf nightshade | (<u>Solanum elaeagnifolium</u>) | P |
| Shepherd's-purse | (<u>Capsella bursa-pastoris</u>) | A |
| Smartweed | (<u>Polygonum</u> spp.) | A/P |
| Sorrell | (<u>Rumex</u> spp.) | P |
| Sowthistle | (<u>Sonchus</u> spp.) | A |
| Speedwell | (<u>Veronica</u> spp.) | A |
| Stinging nettle ³ | (<u>Urtica dioica</u>) | P |
| Sunflower | (<u>Helianthus</u> spp.) | A |
| Sweet clover | (<u>Melilotus</u> spp.) | A/T |
| Tansymustard | (<u>Descurainia pinnata</u>) | A |
| Texas thistle | (<u>Cirsium texanum</u>) | P |
| Velvetleaf | (<u>Abutilon theophrasti</u>) | A |

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Broadleaf Weeds Controlled, continued

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|--------------------|-----------------------------------|---------------------|
| Western ragweed | (<u>Ambrosia psilostachya</u>) | P |
| Wild buckwheat | (<u>Polygonum convolvulus</u>) | A |
| Wild carrot | (<u>Daucus carota</u>) | B |
| Wild lettuce | (<u>Lactuca spp.</u>) | A/B |
| Wild parsnip | (<u>Pastinaca sativa</u>) | B |
| Wild radish | (<u>Raphanus raphanistrum</u>) | B |
| Wild turnip | (<u>Brassica campestris</u>) | B |
| Woollyleaf bursage | (<u>Franseria tomentosa</u>) | P |
| Yellow starthistle | (<u>Centaurea solstitialis</u>) | A |
| Yellow woodsorrel | (<u>Oxalis stricta</u>) | P |

VINES AND BRAMBLES¹

| | | |
|-------------------------|----------------------------------------|-----|
| Blackberry ⁴ | (<u>Rubus spp.</u>) | P |
| Dewberry ⁴ | (<u>Rubus spp.</u>) | P |
| Field bindweed | (<u>Convolvulus arvensis</u>) | P |
| Greenbriar | (<u>Smilax spp.</u>) | P |
| Hedge bindweed | (<u>Calystegia sepium</u>) | A , |
| Honeysuckle | (<u>Lonicera spp.</u>) | P |
| Kudzu ⁵ | (<u>Pueraria lobata</u>) | P |
| Morningglory | (<u>Ipomoea spp.</u>) | A/P |
| Poison ivy | (<u>Rhus radicans</u>) | P |
| Redvine | (<u>Brunnichia cirrhosa</u>) | P |
| Trumpet creeper | (<u>Campsis radicans</u>) | P |
| Virginia creeper | (<u>Parthenocissus quinquefolia</u>) | P |
| Wild buckwheat | (<u>Polygonum convolvulus</u>) | P |
| Wild grape | (<u>Vitis spp.</u>) | P |
| Wild rose | (<u>Rosa spp.</u>) | P |

BRUSH SPECIES¹

SAHARA CP controls more than 30 species of brush.

¹ The higher rates should be used where heavy or well established infestations occur.

² Growth Habit - A = Annual, B = Biennial, P = Perennial

³ For best results early postemergence applications are required.

⁴ The degree of control is species dependent. Some Rubus species may not be completely controlled.

⁵ Use a minimum of 75 GPA - Control of established stands may require repeat applications.

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Leaflet

SAHARA™ II CP herbicide

A CO-PACK PRODUCT FOR BAREGROUND VEGETATION CONTROL
Individual Components of the SAHARA_{II} CO-PACK are NOT For Resale

| HERBICIDE I-A EPA Reg. No. 9779-318-241 | | HERBICIDE II EPA Reg. No. 241-346 | |
|--------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------|--------|
| ACTIVE INGREDIENT | | ACTIVE INGREDIENT | |
| Diuron (3-(3,4-Dichlorophenyl)-1,1-dimethylurea) | 80.0% | Isopropylamine salt of Imazapyr (2-[4,5-dihydro-4-methyl-4-(1methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid* | 28.7% |
| INERT INGREDIENTS | 20.0% | INERT INGREDIENTS | 71.3% |
| TOTAL | 100.0% | TOTAL | 100.0% |
| (1 pound contains 0.8 active pounds of diuron) | | *Equivalent to 22.6% or 2 pounds acid per gallon (1 gallon contains the equivalent of 2.0 pounds of imazapyr) | |

Each SAHARA_{II} CO-PACK contains two, 11.25 pound bags of HERBICIDE I-A and one jug containing 1.125 gallons of HERBICIDE II.

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In case of emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

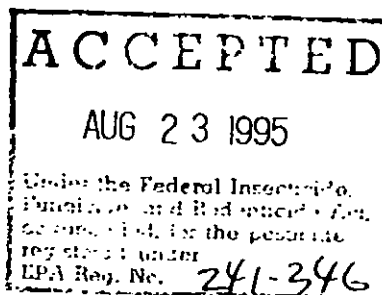
See next page for Additional Precautionary Statements

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AGRICULTURAL PRODUCTS DIVISION
SPECIALTY PRODUCTS DEPARTMENT
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GENERAL INFORMATION

SAHARA CP is a co-pack of HERBICIDE I-A and HERBICIDE II to be mixed with water and a spray adjuvant and applied as a spray solution to noncropland areas such as railroads, pipeline and highway rights-of-way (including pavement edges, guardrails, signposts, and delineators), utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, non-irrigation ditchbanks, and other similar areas where bare ground is desired. For mixing instructions of SAHARA CP, refer to the Mixing Instructions section of this label.

SAHARA CP will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species and SAHARA CP will provide residual control of weeds which germinate in the treated areas. This product may be applied either preemergence or postemergence to the weeds; however, postemergence application is the method of choice in most situations, particularly for perennial species. For maximum activity, weeds should be growing vigorously at the time of postemergence application and the spray solution should include a spray adjuvant (for specific recommendations see the adjuvant section of this label).

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American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

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DIRECTIONS FOR USE

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

This labeling must be in the possession of the user at the time of herbicide application.

SAHARA_{II} CP should be used only in accordance with recommendations on this label and where referenced on the container labels. Keep containers closed to avoid spills and contamination.

Do not apply this product through any type of irrigation system.

APPLICATION INSTRUCTIONS FOR BAREGROUND USES

SAHARA_{II} CP controls many annual and perennial weeds when applied either preemergence or postemergence (See the weeds controlled section for a list of susceptible weeds).

SAHARA_{II} CP should be dissolved in water and applied with properly calibrated equipment to deliver the desired gallons per acre of spray volume in a uniformly distributed spray pattern across the treated area. Length of control may be rainfall dependent. See table below for suggested rates according to average annual rainfall for your region.

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1. Fill spray tank one-half full with clean water and start agitation or bypass system.
2. While agitating add both bags of HERBICIDE I-A followed by one jug of HERBICIDE II.
3. Add any surfactant (see ADJUVANT section) or anti-foaming agents.
4. Add any tank-mix partners.
5. Continue to agitate and fill the remainder of the tank with water.

SAHARA_{II} CP Use Rate Recommendations

| <u>Average Annual Rainfall</u> | <u>Suggested acres treated per SAHARA_{II} CO-PACK</u> |
|--------------------------------|----------------------------------------------------------------|
| Less than 15 inches | 3 - 4.5 |
| Between 15 - 35 inches | 2 - 4 |
| Greater than 35 inches | 1.5 - 3 |

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(Insert Rainfall Map Here)

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TANK MIXES

SAHARA CP may be tank-mixed with Roundup, Krovar³ I, Hyvar³ X, Oust³, Garlon⁴, Finale, MSMA, Banvel⁵, Vanquish⁵, or PENDULUM[®]. Tank-mixes with 2,4-D or products which contain 2,4-D, have resulted in reduced performance of perennial weed control.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank-mixes.

Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities or the drip line.

¹Trademark of Monsanto Company.

²Trademark of Hoechst AG

³Trademark of E.I. Du Pont de Nemours and Company

⁴Trademark of Dow Chemical Company

⁵Trademark of Sandoz Ltd.

[®]Registered Trademark of American Cyanamid Company

ADJUVANTS

Postemergence applications of SAHARA_® CP require a spray adjuvant.

Nonionic Surfactants: Use a nonionic surfactant at the rate 0.25% v/v or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 and having at least 70% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

Methylated Seed Oils or Vegetable Oil Concentrates: Instead of a surfactant, a vegetable-based seed oil concentrate may be used at the rate of 1.5 to 2 pints per acre. Research indicates that these oils may aid in the deposition and uptake of SAHARA_® CP under moisture or temperature stress.

Silicone-Based Surfactants: See manufacturer's label for specific rate recommendations. Silicone-based surfactants may reduce the surface tension of the spray droplets allowing greater spreading on the leaf surface as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake.

Fertilizer/Surfactant Blends: Nitrogen-based liquid fertilizers such as 28%N, 32%N, 10-34-0, or ammonium sulfate, may be added at the rate of 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant or vegetable/seed oil concentrate. The use of fertilizers in a tank mix without a nonionic surfactant is not recommended.

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WEEDS CONTROLLED BY SAHARA_{II} CP

SAHARA_{II} CP will provide preemergence or postemergence control with residual control of the following target vegetation species at the rates listed. Residual control refers to control of newly germinating seedlings in both annuals and perennials. In general, annual weeds may be controlled by preemergence or postemergence applications of SAHARA_{II} CP; whereas, for established biennials and perennials postemergence applications of SAHARA_{II} CP are recommended. SAHARA_{II} CP should be used only in accordance with the recommendations on this label and where referenced on the container labels.

GRASSES¹

| <u>COMMON NAME</u> | <u>SPECIES</u> | <u>GROWTH HABIT²</u> |
|--------------------------|------------------------------------|---------------------------------|
| Annual bluegrass | (<u>Poa annua</u>) | A |
| Annual ryegrass | (<u>Lolium multiflorum</u>) | A |
| Annual sweet vernalgrass | (<u>Anthoxanthum odoratum</u>) | A |
| Bahiagrass | (<u>Paspalum notatum</u>) | P |
| Barnyardgrass | (<u>Echinochloa crusgalli</u>) | A |
| Beardgrass | (<u>Andropogon spp.</u>) | P |
| Bermudagrass | (<u>Cynodon dactylon</u>) | P |
| Big bluestem | (<u>Andropogon gerardii</u>) | P |
| Broadleaf signalgrass | (<u>Brachiaria platyphylla</u>) | A |
| Canada bluegrass | (<u>Poa compressa</u>) | P |
| Cattail | (<u>Typha spp.</u>) | P |
| Cheat | (<u>Bromus secalinus</u>) | A |
| Cogongrass | (<u>Imperata cylindrica</u>) | P |
| Crabgrass | (<u>Digitaria spp.</u>) | A |
| Dallisgrass | (<u>Paspalum dilatatum</u>) | P |
| Downy brome | (<u>Bromus tectorum</u>) | A |
| Fall panicum | (<u>Panicum dichotomiflorum</u>) | A |
| Feathertop | (<u>Pennisetum villosum</u>) | P |
| Fescue | (<u>Festuca spp.</u>) | A/P |
| Foxtail | (<u>Setaria spp.</u>) | A |
| Goosegrass | (<u>Eleusine indica</u>) | A |

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Grass Weeds Controlled, continued

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|--------------------|-----------------------------------|---------------------|
| Guineagrass | (<u>Panicum maximum</u>) | P |
| Italian ryegrass | (<u>Lolium multiflorum</u>) | A |
| Johnsongrass | (<u>Sorghum halepense</u>) | P |
| Kentucky bluegrass | (<u>Poa pratensis</u>) | P |
| Kyllinga | (<u>Cyperus brevifolius</u>) | A |
| Lovegrass | (<u>Eragrostis spp.</u>) | A/P |
| Maidencane | (<u>Arundinaria amabilis</u>) | P |
| Orchardgrass | (<u>Dactylis glomerata</u>) | P |
| Paragrass | (<u>Brachiaria mutica</u>) | P |
| Phragmites | (<u>Phragmites australis</u>) | P |
| Prairie cordgrass | (<u>Spartina pectinata</u>) | P |
| Prairie threeawn | (<u>Aristida oligantha</u>) | P |
| Quackgrass | (<u>Agropyron repens</u>) | P |
| Rattail fescue | (<u>Vulpia myuros</u>) | A |
| Reed canarygrass | (<u>Phalaris arundinacea</u>) | P |
| Ricegrass | (<u>Oryzopsis hymenoides</u>) | A |
| Saltgrass | (<u>Distichlis stricta</u>) | P |
| Sand dropseed | (<u>Sporobolus cryptandrus</u>) | P |
| Sandbur | (<u>Cenchrus spp.</u>) | A |
| Smooth brome | (<u>Bromus inermis</u>) | P |
| Sprangletop | (<u>Leptochloa spp.</u>) | A |
| Timothy | (<u>Phleum pratense</u>) | P |
| Torpedograss | (<u>Panicum repens</u>) | P |
| Vaseygrass | (<u>Paspalum urvillei</u>) | P |
| Velvetgrass | (<u>Holcus lanatus</u>) | A |
| Wild barley | (<u>Hordeum spp.</u>) | A |
| Wild oats | (<u>Avena fatua</u>) | A |
| Wirestem muhly | (<u>Muhlenbergia frondosa</u>) | P |
| Witchgrass | (<u>Panicum capillare</u>) | A |

BROADLEAF WEEDS CONTROLLED¹

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|------------------------------|-------------------------------------|---------------------|
| Arrowwood | (<u>Pluchea sericea</u>) | A |
| Ageratum | (<u>Asteraceae houstonianum</u>) | P |
| Broom snakeweed ³ | (<u>Gutierrezia sarothrae</u>) | P |
| Bull thistle | (<u>Cirsium vulgare</u>) | B |
| Burdock | (<u>Arctium spp.</u>) | B |
| Camphorweed | (<u>Heterotheca subaxillaris</u>) | P |
| Canada thistle | (<u>Cirsium arvense</u>) | P |
| Carolina geranium | (<u>Geranium carolinianum</u>) | A |
| Carpetweed | (<u>Mollugo verticillata</u>) | A |
| Clover | (<u>Trifolium spp.</u>) | A/P |
| Cocklebur | (<u>Xanthium strumarium</u>) | A |
| Common chickweed | (<u>Stellaria media</u>) | A |
| Common ragweed | (<u>Ambrosia artemisiifolia</u>) | A |
| Corn spurry | (<u>Spergula arvensis</u>) | P |
| Dandelion | (<u>Taraxacum officinale</u>) | P |
| Dayflower | (<u>Commelina spp.</u>) | A/P |
| Desert Camelthorn | (<u>Alhagi pseudalhagi</u>) | P |
| Diffuse knapweed | (<u>Centaurea diffusa</u>) | A |
| Dock | (<u>Rumex spp.</u>) | P |
| Dogfennel | (<u>Eupatorium capillifolium</u>) | A |
| Filaree | (<u>Erodium spp.</u>) | A |
| Fleabane | (<u>Erigeron spp.</u>) | A |
| Giant ragweed | (<u>Ambrosia trifida</u>) | A |
| Goldenrod | (<u>Solidago spp.</u>) | P |
| Grey rabbitbrush | (<u>Chrysothamnus nauseosus</u>) | P |
| Gromwell | (<u>Lithospermum spp.</u>) | A |
| Groundcherry | (<u>Physalis spp.</u>) | A/P |
| Hawksbeard | (<u>Crepis spp.</u>) | A |
| Hoary vervain | (<u>Verbena stricta</u>) | P |
| Horsenettle | (<u>Solanum carolinense</u>) | P |
| Horseweed | (<u>Conyza canadensis</u>) | A |
| Indian mustard | (<u>Brassica juncea</u>) | A |
| Japanese bamboo | (<u>Polygonum cuspidatum</u>) | P |
| Knawel | (<u>Scleranthus annuus</u>) | A |
| Kochia | (<u>Kochia scoparia</u>) | A |
| Lambsquarters | (<u>Chenopodium album</u>) | A |
| Lespedeza | (<u>Lespedeza spp.</u>) | P |
| Little mallow | (<u>Malva parviflora</u>) | B |

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Broadleaf Weeds Controlled, continued

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|---------------------------------|---------------------------------------|---------------------|
| Marigold | (<u>Tagetes spp.</u>) | P |
| Milkweed | (<u>Asclepias spp.</u>) | P |
| Miners lettuce | (<u>Montia perfoliata</u>) | A |
| Morningglory | (<u>Ipomoea spp.</u>) | A/P |
| Mullein | (<u>Verbascum spp.</u>) | B |
| Nettleleaf goosefoot | (<u>Chenopodium murale</u>) | A |
| Oxeye daisy | (<u>Chrysanthemum leucanthemum</u>) | P |
| Pennycress | (<u>Thlaspi spp.</u>) | A |
| Pepperweed | (<u>Lepidium virginicum</u>) | A |
| Pigweed | (<u>Amaranthus spp.</u>) | A |
| Pineapple weed | (<u>Matricaria matricarioides</u>) | P |
| Plantain | (<u>Plantago spp.</u>) | P |
| Pokeweed | (<u>Phytolacca americana</u>) | P |
| Prickly sida | (<u>Sida spinosa</u>) | A |
| Primrose | (<u>Oenothera kunthiana</u>) | P |
| Puncturevine | (<u>Tribulus terrestris</u>) | A |
| Purple loosestrife ³ | (<u>Lythrum salicaria</u>) | P, |
| Purslane | (<u>Portulaca spp.</u>) | A |
| Ragweed | (<u>Ambrosia spp.</u>) | A |
| Rush skeletonweed ³ | (<u>Chondrilla juncea</u>) | B |
| Russian knapweed | (<u>Centaurea repens</u>) | P |
| Russian thistle | (<u>Salsola kali</u>) | A |
| Saltbush | (<u>Atriplex spp.</u>) | A |
| Sesbania | (<u>Sesbania spp.</u>) | A |
| Sicklepod | (<u>Cassia obtusifolia</u>) | A |
| Silverleaf nightshade | (<u>Solanum elaeagnifolium</u>) | P |
| Shepherd's-purse | (<u>Capsella bursa-pastoris</u>) | A |
| Smartweed | (<u>Polygonum spp.</u>) | A/P |
| Sorrell | (<u>Rumex spp.</u>) | P |
| Sowthistle | (<u>Sonchus spp.</u>) | A |
| Speedwell | (<u>Veronica spp.</u>) | A |
| Stinging nettle ³ | (<u>Urtica dioica</u>) | P |
| Sunflower | (<u>Helianthus spp.</u>) | A |
| Sweet clover | (<u>Melilotus spp.</u>) | A/B |
| Tansymustard | (<u>Descurainia pinnata</u>) | A |
| Texas thistle | (<u>Cirsium texanum</u>) | P |
| Velvetleaf | (<u>Abutilon theophrasti</u>) | A |

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Broadleaf Weeds Controlled, continued

| <u>Common Name</u> | <u>Species</u> | <u>Growth Habit</u> |
|--------------------|-----------------------------------|---------------------|
| Western ragweed | (<u>Ambrosia psilostachya</u>) | P |
| Wild buckwheat | (<u>Polygonum convolvulus</u>) | A |
| Wild carrot | (<u>Daucus carota</u>) | B |
| Wild lettuce | (<u>Lactuca spp.</u>) | A/B |
| Wild parsnip | (<u>Pastinaca sativa</u>) | B |
| Wild radish | (<u>Raphanus raphanistrum</u>) | B |
| Wild turnip | (<u>Brassica campestris</u>) | B |
| Woollyleaf bursage | (<u>Franseria tomentosa</u>) | P |
| Yellow starthistle | (<u>Centaurea solstitialis</u>) | A |
| Yellow woodsorrel | (<u>Oxalis stricta</u>) | P |

VINES AND BRAMBLES¹

| | | |
|-------------------------|----------------------------------------|-----|
| Blackberry ⁴ | (<u>Rubus spp.</u>) | P |
| Dewberry ⁴ | (<u>Rubus spp.</u>) | P |
| Field bindweed | (<u>Convolvulus arvensis</u>) | P |
| Greenbriar | (<u>Smilax spp.</u>) | P |
| Hedge bindweed | (<u>Calystegia sepium</u>) | A |
| Honeysuckle | (<u>Lonicera spp.</u>) | P , |
| Kudzu ⁵ | (<u>Pueraria lobata</u>) | P |
| Morningglory | (<u>Ipomoea spp.</u>) | A/P |
| Poison ivy | (<u>Rhus radicans</u>) | P |
| Redvine | (<u>Brunnichia cirrhosa</u>) | P |
| Trumpetcreeper | (<u>Campsis radicans</u>) | P |
| Virginia creeper | (<u>Parthenocissus quinquefolia</u>) | P |
| Wild buckwheat | (<u>Polygonum convolvulus</u>) | P |
| Wild grape | (<u>Vitis spp.</u>) | F |
| Wild rose | (<u>Rosa spp.</u>) | P |

BRUSH SPECIES¹

SAHARA CP controls more than 30 species of brush.

¹ The higher rates should be used where heavy or well established infestations occur.

² Growth Habit - A = Annual, B = Biennial, P = Perennial

³ For best results early postemergence applications are required.

⁴ The degree of control is species dependent. Some Rubus species may not be completely controlled.

⁵ Use a minimum of 75 GPA - Control of established stands may require repeat applications.