

67640-3

8-30-96

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
67640-3

Date of Issuance:
AUG 30 1996

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Asulam 400

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Sanachem U.S.A., Inc.
1209 Orange Street.
Wilmington, DE 19801

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes:

a. Revise the EPA Registration Number to read, "EPA Reg. No. 67640-3".

Signature of Approving Official:

Joanne J. Miller

Date:

AUG 30 1996

3. Submit two copies of the revised final printed label for the record.

4. In September, 1995, the Agency issued a Reregistration Eligibility Decision (RED) for the active ingredient, asulam. You will be required to revise this product's label as outlined under Section V of the RED. Further, you may be required to submit additional data to support the continued registration of this product.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller
Product Manager 23
Fungicide-Herbicide Branch
Registration Division (7505C)

Asulam 400

ACTIVE INGREDIENT	
Sodium salt of asulam (methyl sulfanilylcarbamate)	36.2 %
INERT INGREDIENTS	
Total	63.8 %
	100.0 %

* Equivalent to 33.0% asulam acid or 3.30 lb asulam per gallon (or 397 g/L).

KEEP OUT OF REACH OF CHILDREN

CAUTION

STOP -- READ LABEL BEFORE USING

EPA Reg. No. 67640-***

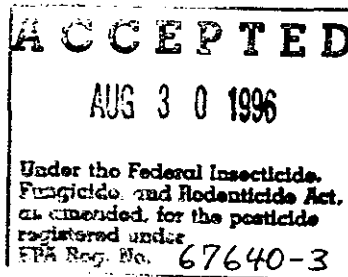
EPA Est. No. 67640-*

Manufactured For

NET CONTENTS
LBS

SANACHEM U.S.A., INC.
1209 Orange Street
Wilmington, DE 19801

9/A03/6



STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of clean running water for 15 minutes. Get medical attention if irritation persists.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger. If a person is unconscious do not give anything by mouth and do not induce vomiting.
IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and launder before reuse. Heavily contaminated clothing should be removed immediately and incinerated or burned if allowed by State Authorities, or disposed of in a sanitary landfill, and should not be laundered.

Applicators and other handlers must wear the following Personal Protective Equipment: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Wash the outside of gloves before removing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. 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.

ENVIRONMENTAL HAZARDS

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 by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwaters and rinsate.

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.

Read entire label before using this product.

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

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 12 hours. 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, wear coveralls over long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

SUGARCANE:

RESTRICTIONS AND PRECAUTIONS: Do not rotate to any crop which is not registered for use with products containing asulam for 1 year following the last application of this product. Cover crops may be planted if they are plowed under and not grazed; otherwise, do not plant crops other than sugar cane in treated areas. Do not treat sugarcane within 90 days of harvest. Do not graze or feed sugarcane fodder and forage to livestock.

Riverside Asulam 3.3 Herbicide may be applied to plant cane or to cane grown from stubble when weeds are actively growing.

RATES:

The rates in the tables below are for broadcast application.

Ground Application: Apply as a water mix spray in 15 - 100 gallons of water per acre according to local requirements.

Aerial Application: Apply as a water mix spray in 3 - 5 gallons of water per acre; in Hawaii, use 5 - 10 gallons per acre.

Banded Application: Reduce rates according to the following formula:

$$\text{band width (inches)/row width (inches) X broadcast rate per acre} = \text{banded rate per acre.}$$

Spot Treatment: Apply 6 - 12 pints in 100 gallons water at a rate of 50 gallons of spray mixture per acre, not exceeding a rate of 8 pints of the concentrated herbicide per acre.

Addition of an adjuvant approved for use on growing crops to the water mix spray will improve weed control when environmental conditions are not optimal. A nonionic surfactant of at least 80% active ingredient can be added at a rate of 1 - 2 quarts per 100 gallons of spray mix (0.25% - 0.5% by volume). Alternatively, a crop oil concentrate containing 80 - 85% paraffinic oil and 15 - 20% nonionic surfactant can be added at a rate of 4 quarts per 100 gallons (1% by vol.) of spray mix.

SINGLE APPLICATION PER SEASON		
WEED SPECIES	RATE (PINTS/ACRE)	SPECIAL INSTRUCTIONS
Raoulgrass or itchgrass (<i>Rottboellia exaltata</i>)	8	Apply with a surfactant when the grass is not more than 8 inches tall.
Johnsongrass (<i>Sorghum halepense</i>)		Apply when the grass is 12 - 18 inches tall. Johnsongrass should be actively growing and the average air temperature should be at least 60°F or higher.
Paragrass or Californiagrass (<i>Brachiaria mutica</i> or <i>Panicum purpurascens</i>)		Apply when the grass is no more than 6 - 8 inches tall.
Crabgrass (<i>Digitaria</i> spp.)	6 - 8	Use the lower rate prior to seed head formation and the higher rate after heading.
Alexandergrass (<i>Brachiaria plantaginea</i>)		Use the lower rate if the grass is no more than 6 - 8 inches tall and the higher rate if more than 8 inches tall.
Barnyardgrass (<i>Echinochloa crusgalli</i>)		
Broadleaf panicum (<i>Panicum adspersum</i>)		
Foxtail (<i>Setaria</i> spp.)		
Goosegrass (<i>Eleusine indica</i>)		

TWO APPLICATIONS PER SEASON (USE IN HEAVY WEED INFESTATIONS OR RE-INFESTATION OR WHERE WEED SPECIES GERMINATE AT DIFFERENT TIMES IN THE SAME GROWING SEASON)		
WEED SPECIES	RATE FOR EACH APPLICATION (PINTS/ACRE)	SPECIAL INSTRUCTIONS
Crabgrass (<i>Digitaria</i> spp.)	6 - 8	Apply before seed head formation. Use the lower rate when crabgrass is less than 6 inches high, and the higher rate from 6 inches to the start of head formation.
Raoulgrass or itchgrass (<i>Rottboellia exaltata</i>)	8	Apply with a surfactant when the grass is no more than 12 inches tall.
Johnsongrass (<i>Sorghum halepense</i>)		Apply when the grass is 18 - 24 inches tall.

NON-CROPLAND USES

For use in areas such as:
boundary fences and fence rows; ditch banks; highway, pipeline and roadside rights-of-way; lumberyards; railroad and utility rights-of-way and yards; industrial plant sites; storage areas; and warehouse lots.

Apply by ground spray using 20 - 100 gallons of solution per acre with a nonionic surfactant at a rate of 0.25% by volume.

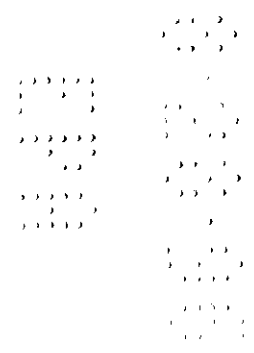
WEED SPECIES	RATE (PINTS/ACRE)	SPECIAL INSTRUCTIONS
Crabgrass (<i>Digitaria</i> spp.)	8 - 16	Apply before the grass reaches seed head formation. Use the higher rate in heavy infestations.
Johnsongrass (<i>Sorghum halepense</i>)		Apply when the grass is at least 18 inches tall. Use the higher rate in heavy infestations. As a spot treatment in Hawaii, apply 8 pints in 50 gallons of spray mixture per acre. Use the higher rate in heavy infestations.
Paragrass or Californiagrass (<i>Brachiaria mutica</i> or <i>Panicum purpurascens</i>)		Apply before seed head formation. Use the higher rate in heavy infestations. As a spot treatment in Hawaii, apply 8 pints in 50 gallons of spray mixture per acre.
Western bracken (<i>Pteridium aquilinum</i> var. <i>pubescens</i>)	7 - 8	Apply when the fern is in full frond. Use the higher rate in heavy infestations.

CHRISTMAS TREES

For use on Douglas fir, Grand fir, Nobel fir, or scotch pine plantings for Christmas trees. Do not graze or feed forage from treated areas to livestock.

Apply a minimum 20 gallons of solution per acre for ground application and a minimum 10 gallons per acre for aerial application.

Spray at a rate of 1 gallon of solution per acre (without a surfactant) after bud-break and hardening of new tree growth to control western bracken (*Pteridium aquilinum* var. *pubescens*), which should be in full frond.



ORNAMENTAL SHRUBS

Broadcast apply without a surfactant at a rate of 1 gallon in 20 gallons of water per acre to the following species of junipers and yews during post-emergence:

- | | |
|--|---------------------------------|
| <i>Juniperus andorra</i> | <i>J. sabina</i> |
| <i>J. chinensis</i> | <i>Taxus cuspidata</i> |
| <i>J. conferta</i> | <i>T. media</i> |
| <i>J. horizontalis</i> <i>J. litoralis</i> | <i>Pondocarpus macrophyllus</i> |

To control:

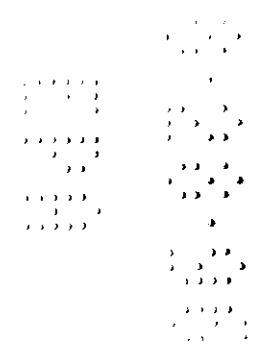
- Barnyardgrass (*Echinochloa crusgalli*)
- Crabgrass (*Digitaria* spp.)
- Fall Panicum (*Panicum dichotomiflorum*)
- Foxtail (*Setaria* spp.)
- Goosegrass (*Eleusine indica*)
- Horseweed or Mare's tail (*Coryza canadensis*)

TURF

Apply without a surfactant at a rate of 5 pints in 20 - 50 gallons of water per acre (1 pint in 4 - 10 gallons per 8700 square feet) to St. Augustinegrass or Tifway 419 Bermudagrass. Do not apply to turf under stress or freshly mowed.

To control:

- | | |
|---------------------------------------|---------------------------------------|
| Bullgrass (<i>Paspalum supinum</i>) | Goosegrass (<i>Eleusine indica</i>) |
| Crabgrass (<i>Digitaria</i> spp.) | Sandbur (<i>Cenchrus</i> spp.) |



STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE

Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Store at temperatures greater than 20° F. Keep container closed when not using. Keep storage area locked when not in use. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. Scrape up and dispose of in accordance with information given under PESTICIDE DISPOSAL. Repackage and relabel useable product in a sound container. In case of fire or other emergency, report at once by toll-free telephone to (800)424-9300.

DISPOSAL

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities, such as burning. If burned, stay out of smoke.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.