



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

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OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

OCT 7 1997

Ms. Cristina Griffin
Delta Analytical Corp
7910 Woodmont Ave - STE 1000
Bethesda, MD 20814

Dear Ms. Griffin:

Subject: Label Amendment to Precautionary Statements and Updates
to First Aid Statements
Sodium Chlorate Crystals
EPA Reg. No. 69874-1
Your submission dated March 17, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes to your first aid statements listed below before you release the product for shipment bearing the amended labeling:

Amend your first aid statements to conform with the EPA Label Review Manual as follows:

If In Eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

In On Skin: Wash with plenty of soap and water. Get medical attention.

In Inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If Swallowed: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, eggwhites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

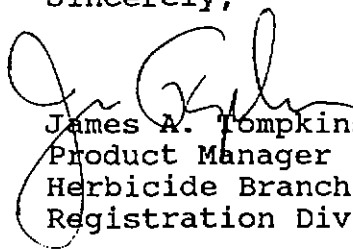
2. Modify the **Hazards to Humans** section to include the following:

May be fatal if swallowed. Causes skin and eye irritation.
Avoid contact with skin, eyes or clothing.

3. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely,



James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

CXY Chemicals

ACCEPTED
with COMMENTS
In EPA Letter Dated
OCT 7 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
69874-1

SODIUM CHLORATE CRYSTAL

Active Ingredient	
Sodium Chlorate (NaClO ₃)	99.7 %
Inert Ingredient	0.3 %
Total	100.0 %

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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 HAZARDS:

MAY BE FATAL IF SWALLOWED • STRONG OXIDIZER • CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE • MAY CAUSE IRRITATION BY ALL ROUTES OF EXPOSURE

CXY Chemicals Sodium Chlorate Crystal can be applied dry in the crystal form or as a water dilution spray. As a weed killer it is most effective when applied directly to the soil. However, when it is used as a cotton defoliant, a water dilution spray is more effective. Nonagricultural uses include treatments of drainage ditches, fences rows, roadsides, rights-of-way and industrial sites. Application as directed can result in the loss of soil productivity for an extended period. Use only in accordance with recommendations on this label.

STATEMENT OF PRACTICAL TREATMENT:

FIRST AID:

If contact with eyes occurs, immediately flush eyes with large amounts of water for 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. **GET MEDICAL ATTENTION.**
If contact with skin occurs, wash thoroughly with soap and water. Wash clothing before reuse, discard non-rubber shoes. **IF IRRITATION OCCURS, GET MEDICAL ATTENTION.**
If inhaled, if symptoms develop, get person out of contaminated area to fresh air.
If swallowed, get medical attention quickly. **NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS LOSING CONSCIOUSNESS, IS UNCONSCIOUS OR CONVULSING.** Do not induce vomiting. Have victim drink 240-300ml of water. If vomiting occurs naturally, rinse mouth and repeat administration of water.

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

Warning: Keep container closed except when transferring material. Do not get in eyes, on skin, or on clothing. Do not smoke in any sodium chlorate area. Do not allow animals to feed on areas treated with Sodium Chlorate Crystal until after a rain. Ingestion of relatively large amounts may be fatal.

Applicators and other handlers must wear:

- Coveralls, or short-sleeved shirt and short pants
- Waterproof gloves
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical resistant headgear for overhead exposure
- Chemical resistant apron when cleaning equipment, mixing, or loading

Discard clothing or 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.

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:

Warning: Sodium Chlorate is not selective in its action, its presence in the soil will destroy germinating seed and inhibit plant growth. This toxic effect is temporary but may persist for approximately one year or longer; duration will vary with rate of application, soil type, fertility level, organic matter content, soil moisture, and soil temperature. This product is toxic to fish and wildlife. Do not contaminate water when disposing of equipment washwaters. Do not allow entry to sewers, irrigation waters or waterways. Do not apply where product may be washed or leach to roots of desirable plants.

PHYSICAL OR CHEMICAL HAZARDS:

Warning: Sodium Chlorate, alone, does not burn. However, organic matter, including clothes, shoes, wood and dead vegetation impregnated with it may become dangerously flammable when dry. When Sodium Chlorate is applied as an aqueous spray, the clothing of the applicator is very likely to become contaminated. Unless contaminated clothing is washed immediately, it will be dangerously flammable upon drying. Do not burn the treated area; burning will reduce the killing effect. Do not apply Sodium Chlorate near valuable plants. Local conditions affect the use of herbicides. Agricultural experiment station or extension service weed specialists in the State issue recommendations to fit local conditions and their recommendations should be followed with CXY Chemical Sodium Chlorate Crystal. Organic materials impregnated with sodium chlorate become dangerously combustible when dry and may be ignited by friction or heat.

CXY Chemicals

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SODIUM CHLORATE CRYSTAL

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with this 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 the 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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standards and that involves contact with anything that has been treated such as plants, soil, or water is: 1) coveralls over short-sleeved shirt and short pants, 2) waterproof gloves, 3) chemical-resistant footwear plus socks, 4) protective eyewear and 5) chemical-resistant headgear for overhead exposure.

HOW TO APPLY: CXY Chemicals Sodium Chlorate gives best results when applied directly to the soil or as an aqueous spray. One to one and one-half pounds of Sodium Chlorate will dissolve readily in one gallon of water. The solution should be applied at the suggested rates for the control of different grasses, weeds, and as a cotton defoliant.

WHEN TO APPLY: For best result, apply Sodium Chlorate from August through November in areas of light winter rainfall (8 to 20 inches). In areas of heavy winter rainfall (20 inches or more) applications should be made in the spring. Excessive moisture may carry the chemical through the root zone too rapidly and insufficient moisture may not carry it into the lethal zone, resulting in poor control of grasses and weeds. High soil temperature tends to reduce killing effects of Sodium Chlorate.

RATES TO USE:

Perennial Grasses: To control such perennial grasses as Johnson, Bermuda, quack, pars and others, apply 3 to 5 pounds per square rod or 1 to 2 pounds per 100 sq. feet.

Perennial Broadleaf Weeds: To control such weeds as bindweed, Canada thistle, leafy spurge, Russian knapweed, Hoary cress and other hard to kill perennials, apply 4 to 6 pounds per square rod or one and one-half to two and one-half pounds per 100 sq. feet.

Cotton Defoliant: For use as a cotton defoliant apply 3 to 5 pounds per acre. Apply when at least 70% of the bolls are open and 2 to 3 weeks prior to anticipated picking date. The youngest bolls expected to make cotton would be at least 30 days old. Do not use earlier than 30 to 40 days after cut-out (usually 40 in irrigated areas). Thorough coverage of the plant is essential. A second application may be necessary. Use the lower rate when the plants and weather conditions are ideal for defoliation. Low temperatures, or stressed, or very rank, tall cotton, would require the use of the highest rate. Do not apply during very high mid-day temperatures. Do not graze treated areas or feed gin waste to livestock.

Spot Treatment: For treating small areas, dry Sodium Chlorate Crystals may be applied by hand or with a spreader. A low pressure sprayer may be used to apply solutions of 1 to 1-1/2 pounds of Sodium Chlorate per gallon of water. Thoroughly wet the foliage of treated vegetation and dampen the soil surface under the plants.

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STORAGE AND DISPOSAL: Product should be completely removed from this container. Material that cannot be used or chemically reprocessed should be disposed of in a manner meeting government regulations. Do not contaminate water, food, or feed by storage or disposal. Store separate from metals, acids, and easily ignitable substances. Dike and vent storage tanks. Use only metal containers for handling Sodium Chlorate Crystal and solutions. Thoroughly wash utensils and equipment after making applications of Sodium Chlorate.

HMIS RATING SYSTEM: HEALTH 2 FLAMMABILITY 0 REACTIVITY 3

BEFORE USING THIS PRODUCT, CAREFULLY READ THE "WARNING" SECTION OF THIS LABEL.

Manufactured By

**CXY Chemicals U.S.A.
Six Greengpoint Plaza, Suite 1350
12450 Greengpoint Drive
Houston, TX 77060**

EPA REG. NO. 69874-1

EPA EST. NO. 69874-LA-001
EPA EST. NO. 69413-CAN-002
EPA EST. NO. 69413-CAN-003
EPA EST. NO. 69413-CAN-004
EPA EST. NO. 69413-CAN-005