

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS 767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

5770-3

DATE OF ISSUANCE

SEP 24 1988

TERM OF ISSUANCE

NOTICE OF PESTICIDE:

REGISTRATION
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

X-O-X Bleach and Disinfectant

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Thoro Products Company
6611 W. 58th Place
Arvada, CO 80003

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the above named product subject to the comments recorded in the succeeding paragraph. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Make the following labeling changes before you release the product for shipment:

1. In the directions for treating swimming pool water, add an instruction on how and where the product is to be added to the pool (at least a wording such as "Add manually or by a feeder device...").

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

Submit one copy of the final printed labeling before releasing the product in channels of trade with the revised labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

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.

Ruth G. Douglas
Product Manager 32
Antimicrobial Program Branch
Registration Division (H-7504C)

Enclosure

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS,
ANIMALS, & THE ENVIRONMENT**

DANGER: Corrosive, may cause severe skin irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes. Avoid getting on skin or clothing. Wear goggles or full face shield and rubber gloves when handling bleach. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

ENVIRONMENTAL HAZARDS: Bleach is toxic to fish. Keep out of lakes, streams, or ponds. Treated effluent may not be discharged into lakes, streams, ponds or public waters without a valid discharge permit. For guidance, contact the regional office of the Environmental Protection Agency.

PHYSICAL & CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing Bleach with gross filth such as feces, urine, etc., or with ammonia, acids, certain detergents or other chemicals may release hazardous gases irritating to eyes, lungs, and mucous membranes.

STORAGE & DISPOSAL

Store in a cool, dry area away from direct sunlight. In case of spill, flood area with large quantities of water. Rinse empty container thoroughly with water & discard by placing in trash collection or burying in an approved landfill. Product or rinseate that cannot be used should be diluted with water & disposed of in a sanitary sewer. Do not contaminate food or feed by storage, disposal, or cleaning of equipment.



Manufactured by:
Thoro Products Co.
661 W. 56th Place
Avéla, CO 80002

EPA Reg #5770-3

EPA Est #5770-CO-1

X-O-X BLEACH AND DISINFECTANT

Active Ingredient: Sodium Hypochlorite
Inert Ingredients:

KEEP OUT OF REACH OF CHILDREN

DANGER

Caution: Irritant. Avoid contact with EYES; flush with water for at least 15 minutes. Get prompt medical attention if inhaled. Rinse mouth with water. If SWALLOWED; drink large quantities of milk or water. Do NOT induce vomiting. Get prompt medical attention if on skin. Wash with large quantities of water. Do NOT induce vomiting. Get prompt medical attention if on skin.

NET CONTENTS: 1 GALLON

ACCEPTED
with COMMENTS
in EPA Letter Dated:

See Revisions on Attached Sheet

SEP 24 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
is accepted for the pesticide
registered under EPA Reg. No.

5770-3

BEST AVAILABLE

X-O-X BLEACH AND DISINFECTANT

Active Ingredient: Sodium Hypochlorite
Total Ingredients:

5.25%
94.75%

KEEP OUT OF REACH OF CHILDREN

DANGER

IF IN CONTACT WITH EYES; flush with water for at least 15 minutes. Get prompt medical attention. If in contact with skin; wash with soap & water. IF SWALLOWED; drink large quantities of water. Do NOT induce vomiting. Get prompt medical attention.

NET CONTENTS: 1 GALLON

DIRECTIONS FOR USE

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

LAUNDRY Instructions -- TO CLEAN & BRIGHTEN FABRICS -- Add 1/4-1 cup X-O-X to wash water, add suds. Turn on agitation while putting in clothes. Use normal to heavy wash cycle, as required to clean.
TO SANITIZE -- (200 ppm) Thoroughly mix 5 oz. X-O-X with 10 gals. water, add clothes. Wait 5 minutes, add detergent and start wash cycle.
TO DISINFECT -- (400 ppm) Follow same procedure as To Sanitize using twice the amount of X-O-X.
CAUTION: Colors may fade at this concentration.

FOOD CONTACT SURFACE SANITIZING

HARD SURFACE SANITIZING -- (100-200 ppm) For either Rinse or Immersion method. Mix 2.5-5 oz. of X-O-X into every 10 gals. of water. Rinse or immerse PREVIOUSLY CLEANED articles for at least 2 minutes. Do NOT follow with a clean water rinse. Allow to dry before use.

POROUS SURFACE Sanitizing -- (800 ppm) For either Rinse or Immersion method. Mix 15 oz. X-O-X into every 10 gals. of water. Rinse or immerse PREVIOUSLY CLEANED articles for at least 2 minutes. Follow with a final rinse (200 ppm) as directed in HARD SURFACE Sanitizing instructions.

MEAT & POULTRY Processing Areas -- (200 ppm) Clean areas and equipment in standard manner. Follow HARD SURFACE Sanitizing instructions. Do NOT allow solution to come in contact with meat, poultry, food or feed.

The above concentrations may also be checked for Solution Strength/Available Chlorine by testing with a Chlorine Test Kit. To ensure results, use the chlorine test kit as specified by the manufacturer to maintain solution strength (indicated ppm) as directed under specific use instructions. Concentration listed below should only be mixed and maintained with a reliable Chlorine Test Kit. Someone knowledgeable in its use is necessary to ensure the proper results. Since this product's strength degrades with age, it may become necessary to increase the dosage to obtain the necessary results or level of available chlorine. The Chlorine Test Kit will be useful in making this determination.

SWIMMING POOL Instructions -- MAINTENANCE SANITIZING -- (0.6-1.0 ppm) Maintain available chlorine levels as required by local Health authorities. Stabilized pools require 1.0-1.5 ppm residual levels of available chlorine. Pools should be checked frequently and X-O-X added as necessary.
SUPERCHLORINATION -- (5-10 ppm) Weekly, or as necessary introduce a solution containing higher levels of available chlorine should be introduced to ensure proper levels of hygiene are met. Check with local Health authorities to determine level and frequency of treatment. After treatment allow the level of chlorine to drop back down to safe levels (1.0-3.0 ppm) before allowing people to re-enter pool.

See Revisions on Attached Sheet

BEST

LEFT SIDE PANEL: 2. Underneath PRECAUTIONARY STATEMENTS [insert] HAZARDS TO HUMANS AND DOMESTIC ANIMALS. [Delete] HAZARDS TO HUMANS.

3. Following ENVIRONMENTAL HAZARDS: [insert] This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. [Delete] Bleach is toxic to fish. Keep out of lakes, streams, or ponds. Treated effluent may not be discharged into lakes, streams, ponds, or public waters without a valid discharge permit. For guidance, contact the regional office of the Environmental Protection Agency.

4. Place the box which contains the STORAGE & DISPOSAL statements under [insert] DIRECTIONS FOR USE heading.

RIGHT SIDE PANEL: 5. Under Laundry Instructions- [Delete] TO DISINFECT-(400 ppm) Follow same procedure as To Sanitize using twice the amount of X-O-X. CAUTION: Colors may fade at this concentration.

6. Under SUPERCHLORINATION- [Insert] This applies to newly filled pools.

BEST AVAILABLE COPY

