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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON DC 20460	EPA REGISTRATION NO. 48301-33	DATE OF ISSUANCE
	TERM OF ISSUANCE <b>JUN 19 1992</b>	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended).	NAME OF PESTICIDE PRODUCT Tris Nitro Solid	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Angus Chemical Company  
 2211 Sanders Road  
 Northbrook, IL 60062

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.

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

1. Submit/cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 48301-33."
  - b. Just a reminder that the Net Contents must be on the label or on the immediate container.
  - c. Revise:

Est. No.  
  
to read:  
  
EPA Est. No.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
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d. It is preferred that

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

be directly below the Ingredient Section (above the statement:  
Precautionary Statements).

3. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosure

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Proposed Label of February 28, 1992

**TRIS NITRO® SOLID - Industrial Bacteriostat**

**Active Ingredient:**

2- Hydroxymethyl-2-nitro-1,3-propanediol.....100%

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**AVOID CONTACT WITH EYES.  
HARMFUL IF SWALLOWED. WASH THOROUGHLY WITH SOAP AND WATER AFTER  
HANDLING AND BEFORE EATING OR SMOKING.  
HARMFUL IF INHALED.  
REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.**

**Environmental Hazards**

This pesticide is toxic to fish. 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.

**Statement of Practical Treatment**

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.  
**IF IN EYES:** Flush with plenty of water. Call a physician.  
**IF ON SKIN:** Wash thoroughly with soap and water.  
**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration and get medical attention.

**ANGUS Chemical Company** assumes no responsibility when this product is not used in accordance with the instructions and information contained on this label.

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**Storage and Disposal**

TRIS NITRO SOLID decomposes in the presence of alkaline materials. Protect from vapors of ammonia and amines during handling and storage to prevent deterioration and release of formaldehyde.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or 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.

See Additional Precautionary Statements on Side Panel and in Technical Bulletin.

EPA. Reg. No. 48301  
Est. No. 48301-LA-1

ANGUS Chemical Company  
2211 Sanders Road  
Northbrook, IL 60062 U.S.A.

**DIRECTIONS FOR USE**

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

**USE IN PAINTS, EMULSIONS, AND THICKENER SOLUTIONS**

TRIS NITRO SOLID is effective as a preservative in water-coating systems, such as latex paints, resin emulsions, and thickener solutions at a concentration of 0.2 to 1.0 lb per 100 gallons total formulation weight. The recommended rate for preservation of a latex paint is 0.2 to 0.4 lb per 100 gallons of the formulation. The recommended rate for preservation of resin emulsions and thickener solutions is approximately 0.4 lb per 100 gallons of the formulation.

**USE IN METALWORKING FLUIDS**

In Diluted Fluids: A concentration of 1000 to 2000 ppm of active TRIS NITRO in the fluid is sufficient to control gross bacterial growth. Add 1.27-2.54 lb TRIS NITRO SOLID per each 100 gallons of fluid.

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Maintenance Dosage: Add 250 to 500 ppm of active TRIS NITRO weekly as required to maintain control of the system. The addition of 0.32 lb TRIS NITRO to each 100 gallons of fluid will provide a 250 ppm concentration.

In Concentrates: TRIS NITRO SOLID may be incorporated by the manufacturer in metalworking fluid concentrate. The higher levels required in such concentrates will be stable as long as the pH is maintained in the range of 6 to 8. Above such pH levels rapid deterioration of TRIS NITRO SOLID may result in the release of noticeable levels of formaldehyde. Long-term stability tests should be carried out by the manufacturer on his specific formulation to ensure that the concentrate does not contain ingredients incompatible with TRIS NITRO SOLID stability. The amount to be incorporated will depend on the dilution factor recommended to be used when the concentrate is diluted for use. For efficient bacteriostatic activity, a concentration of 1000 to 2000 ppm of active TRIS NITRO in the diluted fluid is suggested.

**USE IN INDUSTRIAL RECIRCULATING WATER SYSTEMS - Not for use in California.**

For control of bacteria in industrial cooling towers and evaporative condensers, treat the system with 5-1000 ppm of active TRIS NITRO.

Initial dose: When the system is noticeably fouled, add 4 oz-5.08 lb TRIS NITRO SOLID per 1000 gallons of water in the system. Repeat until control is achieved. Badly fouled systems must be cleaned before initial treatment.

Subsequent dose: Add 1.3 oz-1.27 lb TRIS NITRO SOLID per 1000 gallons of water in the system as needed to maintain control.

**USE IN OILFIELD WATER SYSTEMS**

For controlling aerobic slime-forming bacteria (*Pseudomonas* sp.) and anaerobic sulfate-reducing bacteria (*Desulfovibrio desulfuricans*) in oilfield water systems, such as subsurface injection water, add 500-1000 ppm active TRIS NITRO depending on the severity of the contamination. Additions should be made with a metering pump at the free-water knockouts before or after injection pumps and injection well headers.

Continuous-feed method: If the system is noticeably fouled, add 500-1000 ppm active TRIS NITRO (406-812 lb TRIS NITRO SOLID per 2000 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 500 ppm active TRIS NITRO (406 lb TRIS NITRO SOLID per 2000 barrels of water) continuously as needed to maintain control.

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Intermittent or slug method: If the system is noticeably fouled, or to maintain control of the system, add 500-1000 ppm active TRIS NITRO (406-812 lb TRIS NITRO SOLID per 2000 barrels of water) intermittently for 2-8 hours per day on from 1-4 days per week, depending on the severity of contamination.

**USE AS A PRESERVATIVE FOR PACKAGED EMULSIONS, SOLUTIONS, OR SUSPENSIONS SUCH AS DETERGENTS AND POLISHES CONTAINING WATER - Not for use in California.**

For control of bacterial contamination add 500-1000 ppm of active TRIS NITRO (5.08-10.16 lb TRIS NITRO SOLID) per 1000 gallons of formulation.

#### **USE IN DRILLING MUDS**

For control of sulfate-reducing bacteria in water-based drilling muds, add 0.64-5.08 lb TRIS NITRO SOLID to 1000 gallons of drilling mud.

**USE IN PULP AND PAPERMILL PROCESS WATER SYSTEMS - Not for use in California.**

**Do not use this product in any process which makes paper or paperboard that will come in contact with food or feed.**

For control of bacterial growth in pulp, paper, and paperboard mills, add TRIS NITRO SOLID at the rate of 1.27-5.08 lb per ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It should be made with a metering pump at a location that will insure uniform distribution of TRIS NITRO in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests, save-alls and white-water tanks.

Heavily fouled systems should be boiled out; then treat with 5.08 lb TRIS NITRO SOLID per ton of paper (dry basis) as necessary for control.

Moderately fouled systems should be treated continuously with 1.27-5.08 lb TRIS NITRO SOLID per ton of paper (dry basis) on a continuous or intermittent basis as needed for control.

Slightly fouled systems should be treated continuously with 1.27 lb TRIS NITRO SOLID per ton of paper (dry basis) until control is achieved.

#### **PRODUCT INCORPORATION**

Addition of TRIS NITRO SOLID to each system is best accomplished by adding TRIS NITRO SOLID to any water to be incorporated into the formulation.

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