



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

102007-13

Date of Issuance:

8/4/23

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Tolcide® 4FRAC70

Name and Address of Registrant (include ZIP Code):

Christina Griffin  
Delta Analytical Corporation, Agent for Energy Solutions (US), LLC  
12510 Prosperity Drive, Suite 160  
Silver Spring, MD 20904  
Electronic Transmittal: [cgriffin@delta-ac.com](mailto:cgriffin@delta-ac.com)

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials 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 under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Steven Snyderman, Product Manager 33  
Regulatory Management Branch II  
Antimicrobials Division (7510M)

Date:

8/4/23

2. You are required to comply with the data requirements described in the DCI identified below:

- a. Alkyl dimethyl benzyl ammonium chloride (ADBAC): GDCI-069105-1679
- b. Tetrakis(hydroxymethyl)phosphonium sulphate (THPS): GDCI-129058-1723

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, “EPA Reg. No. 102007-13.”

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under 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. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated: 8/4/2022

If you have any questions, please contact Srinivas Gowda by phone at 202-565-0078, or via email at [gowda.srinivas@epa.gov](mailto:gowda.srinivas@epa.gov).

Enclosure: Stamped Label

08/04/2023

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 102007-13

**Tolcide® 4FRAC70**  
**[Oil & Gas Antimicrobial]**

**ACTIVE INGREDIENTS:**

Tetrakis(hydroxymethyl) phosphonium sulfate ..... 61.0%  
Alkyl (50%C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride .....8.7%

**OTHER INGREDIENTS:** .....30.3%

**TOTAL:** .....100.0%

[THPS Active ingredient produced in United Kingdom and/or China]

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER/PELIGRO**

*{Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front panel of the product label} {Box and bullet format for FIRST AID section is optional}*

<b>FIRST AID</b>	
<b><i>If in eyes:</i></b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b><i>If on skin or clothing:</i></b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b><i>If inhaled:</i></b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center for further treatment advice.</li> </ul>
<b><i>If swallowed:</i></b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. <b><i>Note to physician:</i></b> Probable mucosal damage may contraindicate the use of gastric lavage.	

[See Side [or back] Panels for Additional Precautionary Statements]

[In case of emergency, call CHEMTREC at 1-800-424-9300]

Manufactured by [or for]:  
**Energy Solutions (US) LLC**  
**504 Carnegie Center**  
**Princeton, New Jersey 08540**  
**(609) 860-4000**

EPA Reg. No. 102007-

EPA Est. No.

Net Contents: \_\_\_\_\_ [As marked on container] or

Net Contents: \_\_\_\_\_ gallon drum [for repackaging only] or

Net Contents: \_\_\_\_\_ gallon tote [for repackaging only]

*[In the text "this product" or alternate brand name may be substituted for Tolcide®4FRAC70 product name]*

*[[Information in brackets[ ] is optional or instructional; italics in brackets indicate instructions not part of labeling.]*

7/06/23

**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS AND DOMESTIC ANIMALS**

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if swallowed, absorbed through the skin, or inhaled. Do not breathe vapor or spray. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear coveralls over long-sleeved shirt and long pants, socks, chemical-resistant footwear, and chemical-resistant gloves. Wear goggles, face shield, or safety glasses when handling. Wear a chemical-resistant apron, when mixing and loading. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**DIRECTIONS FOR USE**

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

Product for use in closed automated systems only. No open pouring or manual mixing.

**Oil and Gas Production and Transmission Pipelines and Systems**

Tolcide 4FRAC70 should be added at a point in the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum distribution of Tolcide 4FRAC70 through the entire internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline. Criteria for success of the treatment will be reduction in bacterial count and/or corrosion rates.

Slug Dosing: For a noticeably fouled system, add 115 - 430 ppm Tolcide 4FRAC70 (70-262.5 ppm THPS[, ] [10-37.5 ppm quat]). When added to a flowing system, slug dose for 2-6 hours based on flow rates. Repeat as necessary until control is achieved.

Continuous Dosing: Tolcide 4FRAC70 can be dosed continuously at a level of 17 - 123 ppm (10.5-75 ppm THPS[, ] [1.5-11 ppm quat])

**Hydraulic Fracturing (Not for use in California)**

Tolcide 4FRAC70 should be added to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole. Add 50 - 429 ppm of Tolcide 4FRAC70 (30-262 ppm THPS[, ] [4.5-37 ppm quat]), depending on the degree of bacterial fouling in the source water.

[This product may be diluted 1:3.5 with water and/or methanol before application. If diluted, use 3.5 times the dose rates listed above to achieve the ppm active concentrations listed.]

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*{Reader's Note: Storage and Disposal will come immediately after Directions for Use on marketplace labels.} {Reader's Note: EPA allows for pesticide labels to have container handling and disposal instructions for multiple container types in which that product can be sold. If multiple container handling and disposal statements are used on the marketplace label, there is no need to repeat storage and pesticide disposal statements for each.}*

## **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of a spill, flood the area with large quantities of water.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

*{Insert container handling statement of either non-refillable or refillable container depending upon the type of container and size being used. If both sizes are on one marketplace label, include the greater than 5 gallons and 5 gallons or less headings and remove the brackets:}*

### **CONTAINER HANDLING AND DISPOSAL:**

**Nonrefillable container [greater than 5 gallons].** Do not reuse or refill this container. Offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Nonrefillable container [5 gallons or less].** Do not reuse or refill this container. Offer for recycling or reconditioning if appropriate. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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7/06/23

**Refillable container.** Refill this container with THPS only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Pressure rinse the container for final disposal as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

*[Bulk Shipment Transport Vehicles: In accordance with 40 CFR 156.140 (e) "Exemption for transport vehicles" transport vehicles are exempt from the requirements to provide refillable or nonrefillable container instructions, therefore, only pesticide storage and disposal is required on bulk transport vehicle labeling]*

*[All products must bear a batch code. This is a lot number or other code used by the registrant or producer to identify the batch of the pesticide product distributed and sold. Location may be on the container or the label.]*

**Note:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk and/or handling of this material, when such use and/or handling is contrary to label directions.

[TOLCIDE® is a registered trademark held by Energy Solutions (US) LLC]

*{Note to Reviewer: Other similar company logos may be used}*



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