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AQUCAR™ TN 50 Water Treatment Microbiocide

Tris (hydroxymethyl) nitromethane

For use in the control of microorganisms in oil and gas production

REGISTRATION NO. 16821 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:

Tris (hydroxymethyl) nitromethane 50%

COMMERCIAL

CAUTION {Poison Symbol} POISON

READ THE LABEL BEFORE USING

Net Contents: 216 kg

LANXESS Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275-1112 1-800-
LANXESS

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EMERGENCY TELEPHONE NUMBERS

TRANSPORTATION EMERGENCIES ONLY:

CANUTEC (Canada): 1-613-996-6666

CHEMTREC: 1-800-424-9300 (USA); 1-703-527-3887 (International)

ALL OTHER EMERGENCIES:

LANXESS: 1-800-410-3063 (USA); 1-866-673-6350 (Canada)

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED. Avoid contact with eyes. Wear chemical-resistant gloves, long pants, a long-sleeved shirt and shoes plus socks during mixing, loading and other handling activities. Wash thoroughly

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with soap and water after handling and before eating, drinking or smoking. Harmful if inhaled. Wash contaminated clothing with soap and water before reuse. Formaldehyde can be released during use of this product. It is recommended that this product not be used in circumstances which would result in formaldehyde air concentrations in the workplace exceeding the exposure levels established by occupational health and safety authorities in your jurisdiction. If values exceed this level it is recommended that NIOSH approved respiratory protection be worn.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

In case of eye contact: Hold eye open and rinse slowly and gently with water for 15–20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

In case of skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

In case of inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL HAZARDS

This product is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. The requirements of applicable laws should be determined before using the product.

DIRECTIONS FOR USE

For use in terrestrial oil fields only. Do not apply in marine and/or estuarine oil fields. For use in the control of microorganisms in oil and gas production.

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Oil and Gas Production Uses

At a point of uniform mixing, apply **AQUCAR™ TN 50 Water Treatment Microbiocide** at a concentration within the stated dosing range for the relevant product application. Subsequent treatments can be applied, as needed, to maintain an effective microbial control concentration, within the described dosage range. The stated concentration ranges provide microbial control of microorganisms at differing levels of contamination.

Drilling, Completion, and Workover Fluids

Add 150 to 2000 ppm product to the freshly-prepared fluid system. Subsequent treatments may be applied, as needed, to maintain a concentration of 150 to 2000 ppm due to fluid reuse or turn over.

Packer Fluids

Add 150 to 2000 ppm product to a circulating packer fluid to ensure uniform mixing. Seal the treated packer fluid in the wall between the casing and production tube.

Fracturing Fluids

Add 150 to 2000 ppm product at any point in the production or application of the fracturing fluid to reduce bacterial contamination and fracturing fluid degradation.

Water Floods and Enhanced Oil Recovery Fluids

Intermittent or continuous dosing can be applied to the fluid to achieve a concentration of 100 to 2000 ppm product for effective microbial control.

Injection Waste Fluids

Add 100 to 2000 ppm product to the waste fluid prior to or at injection into an approved disposal well.

Oil and Gas Water Storage and Transmission Systems

Add 100 to 2000 ppm product to the water storage or transmission system as needed to maintain microbial control.

Gas Storage Wells and Systems

Individual injection wells should be treated to produce a concentration of 100 to 2000 ppm product based on the water volume present in the system. Yearly treatments should be applied to maintain effective microbial control. Individual drips should contain 100 to 2000 ppm as needed to maintain microbial control.

Hydrotesting

Water used to hydrotest pipelines or vessels should contain 100 to 2000 ppm product.

Pipeline Pigging and Scraping Operations

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Add the appropriate volume of product to achieve a concentration of 100 to 2000 ppm product in the water slug applied immediately following the scraper.

Hydrocarbon Production, Storage and Transmission Systems

Add via direct injection to achieve a concentration of 100 to 2000 ppm product based on the volume of water in the system. For pipeline uses, after application and complete distribution throughout the pipeline, a detectable amount of residual product should be present at the back end of the pipeline system.

STORAGE

Crystallizes at 0°C. Store in a warm place.

AQUCAR™ TN 50 Water Treatment Microbiocide 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.

DISPOSAL

CONTAINER DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site. 2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills..

WASTE DISPOSAL

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Wastes resulting from the use of this product may be disposed of on site or any approved waste disposal facility.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.