

2002/2007

TRAVIS T-351
CHEMICALS INC.
ANTIMICROBIAL

A MICROBIOCIDIC FOR USE IN CONTROLLING SULFATE REDUCING BACTERIA AND SLIME FORMING BACTERIA IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, AND OIL FIELD WATER SYSTEMS SUCH AS STREAM INJECTION WATER HOLDING TANKS, FLOOD WATER, INJECTION WATER, HOLDING POND WATER, DISPOSAL WELL WATER, AND WATER HOLDING TANKS.

REGISTRATION NO. 22690
PEST CONTROL PRODUCTS ACT

GUARANTEE:
Active Ingredient Glutaraldehyde 50%

COMMERCIAL

DANGER
CORROSIVE

READ THE LABEL BEFORE USING

20 Litres, 22.5 kg
Net Contents: 202 Litres, 227 kg

Notification Change

~~TRAVIS CHEMICALS INC.
19th Floor, First Alberta Place,
777 - 8th Avenue S.W.
Calgary, Alberta
T2P 3R5~~

BRENNTAG CANADA INC.
43 Jutland Road
Toronto, ON M8Z 2G6

TRAVIS is a trademark of Travis Chemicals Inc.

IN CASE OF EMERGENCY, TELEPHONE (24 HOURS PER DAY)
CALL COLLECT (403) 263-8660
CANUTEC (24 HOUR EMERGENCY) (613) 996-6666

Corrosive Liquid N.O.S. UN 1760

Shipping Name (Glutaraldehyde solution) ID Number

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
DANGER
KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns
Harmful if inhaled. Harmful if swallowed. Harmful if absorbed
through skin. May cause skin sensitization.

Do not get in eyes, on skin, on clothing. Avoid breathing vapor.
Do not swallow.

Wear goggles, protective clothing, and rubber gloves. Wash
thoroughly with soap and water after handling. Remove
contaminated clothing and wash before reuse.

FIRST AID INSTRUCTIONS

IF IN EYES: Immediately flush with plenty of water for at least
15 minutes. Get immediate medical attention.

IF ON SKIN: Immediately wash with plenty of soap and water. Get
medical attention.

IF INHALED: Remove to fresh air. If breathing is difficult,
administer oxygen. If symptoms persist, call a physician.

IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to
drink. Seek medical advice with urgency.

TOXICOLOGICAL INFORMATION

Aspiration may cause lung damage. Probable mucosal damage may
contraindicate the use of gastric lavage. Measures against
circulatory shock, respiratory depression and convulsion may be
needed.

DISPOSAL:

1. Rinse the emptied container thoroughly and add the rinsings
to treatment site.
2. Follow provincial instructions for any required additional
cleaning of the container prior to its disposal or
reconditioning.
3. Dispose of the container in accordance with provincial
requirements.
4. For information on the disposal of unused, unwanted product
and the cleanup of spills, contact the regional office of
Environment Canada.
5. For small spills, recover free liquid. Soak up residue with
solids absorbent. Do not flush into surface streams.
Inform Environment Canada as in #4.

STORAGE AND HANDLING

TRAVIS T-351 solutions are corrosive in many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic lined steel, polyethylene, steel, or reinforced epoxy- plastic equipment. This product freezes at about minus 21'C.

Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 38'C can be tolerated but the preferred maximum storage temperature is about 27'C.

A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON is suitable for gaskets and packing.

NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

DIRECTIONS FOR USE WATER FLOODS

TRAVIS T-351 Antimicrobial should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank.

Initial Treatment: When the system is noticeably contaminated, add 50-100 ppm Active Glutaraldehyde (90mL - 180 mL TRAVIS T-351 Antimicrobial per 1000L flood water). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 10-50 ppm Active Glutaraldehyde (18mL - 90 mL TRAVIS T-351 Antimicrobial per 1000L flood water) weekly, or as needed to maintain control.

DRILLING MUDS

TRAVIS T-351 Antimicrobial should be added to drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 25-500 ppm Active Glutaraldehyde (.720-14.4L TRAVIS T-351 Antimicrobial per 100 barrels of fluid) to freshly prepared drilling fluid, depending on the severity of contaminator.

Maintenance Dosage: As the total volume of the system increases due to increased well depths, maintain 25 - 500 ppm Active Glutaraldehyde (.720 - 14.4L of TRAVIS T-351 Antimicrobial per 100 barrels of additional fluid), or as needed, depending on the severity of contamination.

COMPLETION AND WORKOVER FLUIDS

TRAVIS T-351 Antimicrobial should be added to a completion and workover fluid at a point of uniform mixing such as a circulating tank. Add 25 - 500 ppm Active Glutaraldehyde (.720 - 14.4L TRAVIS T-351 Antimicrobial per 100 barrels of fluid) to freshly prepared fluid, depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clear, shut the system down and idle for several hours. Remove the workover fluid. The well should be ready for productive use.

PACKER FLUIDS

TRAVIS T-351 Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 25 - 300 ppm Active Glutaraldehyde (.720 - 8.7L TRAVIS T-351 per 100 barrels of fluid) to a freshly prepared fluid, depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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