

GREENCIDE 30 CW

ANTIMICROBIAL
Solution

A MICROBIOCIDIC FOR USE IN CONTROLLING SULFATE-REDUCING BACTERIA AND SLIME-FORMING BACTERIA IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, OIL FIELD WATER SYSTEMS, GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS, AND GAS STORAGE FIELDS AND EQUIPMENT; SUCH AS STEAM-INJECTION WATER HOLDING TANKS, FLOOD WATER, INJECTION WATER, HOLDING POND WATER, DISPOSAL-WELL WATER, WATER HOLDING TANKS, FUEL STORAGE TANKS AND RELATED REFINERY AND OIL FIELD CLOSED INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS.

COMMERCIAL

GUARANTEE: GLUTARALDEHYDE....30.0%

REGISTRATION NO. 25790 PEST CONTROL PRODUCTS ACT

DANGER

POISON

CORROSIVE

EXTREMELY FLAMMABLE

CORROSIVE TO EYES AND SKIN

POTENTIAL SKIN SENSITIZER

READ THE LABEL BEFORE USING

EPA ESTABLISHMENT NO: 10352-WV-02 08133-TX-01

SHIPPING NAME: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (CONTAINS ACETONE, GLUTARALDEHYDE) HAZARD CLASS 3, 8 ID NUMBER UN 2924 PG II

HEALTH 3

FIRE 3

REACTIVITY 0

PERSONAL PROTECTION –

NET CONTENTS -20 OR 210 LITRES

Nalco Canada ULC

1055 Truman Street, PO Box 5002

Burlington ON, Canada L7R 3Y9

IN CASE OF EMERGENCY CALL SPECIAL PRODUCTS AT 281-431-2561 OR CHEMTREX AT 1-800-424-9300

PRECAUTIONS: HAZARDS TO HUMANS

DANGER

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. Harmful or fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Do not inhale fumes or vapor. Do not swallow. Wear goggles and a face shield, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, and chemical-resistant footwear during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling. Use only in well ventilated area. Remove contaminated clothing and shoes and wash them before reuse.

PHYSICAL AND CHEMICAL HAZARDS Extremely Flammable! Keep away from heat, sparks and open flame.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms. **DO NOT** apply in marine and/or estuarine oil fields.

FIRST AID :

IF IN EYES: 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.

IF ON SKIN OR CLOTHING: 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.

IF INHALED: 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.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice.

Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

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

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. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal or reconditioning.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial 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

STORAGE AND HANDLING

GREENCIDE 30 CW Antimicrobial solutions are incompatible with 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, stainless steel, or reinforced epoxy-plastic equipment. This product freezes about at about - 43°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.

To prevent contamination, store this product away from food or feed.

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. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE

DO NOT open pour more than 20 L of concentrate per day. Use an automatic addition system if using more than 20 L of concentrate per day.

DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans, or other waters. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

WATER FLOODS

GREENCIDE 30 CW Antimicrobial should be added to a water flood system at a point of uniform mixing. Initial Treatment: When the system is noticeably contaminated, add 167 to 8333 ppm GREENCIDE 30 CW Antimicrobial (0.2 to 8.3 litres GREENCIDE 30 CW Antimicrobial per 1000 Litres flood water). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 33 to 8333 ppm GREENCIDE 30 CW Antimicrobial (0.03 to 8.3 litres GREENCIDE 30 CW Antimicrobial per 1000 litres flood water) to the system weekly, or as needed to maintain control.

DRILLING, COMPLETION, AND WORKOVER FLUIDS

GREENCIDE 30 CW Antimicrobial should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 90 to 1665 ppm GREENCIDE 30 CW Antimicrobial (1.2 to 25 litres GREENCIDE 30 CW Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid, depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 90 to 1665 ppm GREENCIDE 30 CW Antimicrobial by adding 1.2 to 25 litres of GREENCIDE 30 CW Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS

GREENCIDE 30 CW Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 90 to 1005 ppm GREENCIDE 30 CW Antimicrobial (1.2 to 16 litres GREENCIDE 30 CW Antimicrobial 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.

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

GREENCIDE 30 CW Antimicrobial should be added to a gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of GREENCIDE 30 CW Antimicrobial 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. To facilitate application it may be desirable to dilute the GREENCIDE 30 CW Antimicrobial with the appropriate solvent immediately before use. The concentration in the solvent should not fall below the 840 to 8340 range. Injections to the system should be made on a weekly basis, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS

Individual injection wells should be treated with a sufficient quantity of GREENCIDE 30 CW Antimicrobial to produce a concentration of 840 to 8340 ppm GREENCIDE 30 CW Antimicrobial when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control. Individual drips should be treated with a sufficient quantity of GREENCIDE 30 CW Antimicrobial to produce a concentration of 330 to 3330 ppm GREENCIDE 30 CW Antimicrobial when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

HYDROTESTING

Water used to hydrotest pipelines or vessels should contain 165 to 6660 ppm GREENCIDE 30 CW Antimicrobial (0.15 to 6.6 litres GREENCIDE 30 CW Antimicrobial per 1000 litres water), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS

Add GREENCIDE 30 CW Antimicrobial to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient GREENCIDE 30 CW Antimicrobial should be added to produce a concentration of 0.15 to 1.7 % (0.15 to 1.7 litres GREENCIDE 30 CW Antimicrobial per 100 litres water), depending on the length of the pipeline and the severity of biofouling.

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