

02-JUN-1998

UNION CARBIDE

UCARCIDE(R)

145LT CARBIBE

ANTIMICROBIAL

A MICROBICIDE 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, AND WATER HOLDING TANKS, FUEL STORAGE TANK AND RELATED REFINERY AND OIL FIELD CLOSED INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS.

REGISTRATION NO. 23607

PEST CONTROL PRODUCTS ACT

GUARANTEE

Glutaraldehyde.....45.0%

COMMERCIAL

DANGER

POISON CORROSIVE

FLAMMABLE

CORROSIVE TO EYES AND SKIN.

POTENTIAL SKIN SENSITIZER.

READ THE LABEL BEFORE USING

UNION CARBIDE CORPORATION
P.O. BOX 670, BOUND BROOK, NJ 08805

UCARCIDE is a registered trademark of
Union Carbide
Toronto, Canada M2K 1E3

Net Contents: 210.9 kg

EPA Est. No. 10352-WV-2
UCC No. L55997C (4/98)

Made in USA
PE0598

EMERGENCY CONTACT (24 HOURS PER DAY):
IN USA 1-800-UCC-HELP (1-800-822-4357)
OUTSIDE USA 01-304-744-3487
IN CANADA 613-996-6666

PRECAUTIONARY STATEMENTS
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 skin 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.

When handling the concentrate and during cleaning, maintenance and repair activities on contaminated equipment, wear goggles and face shield, chemical resistant gloves, and boots. 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.

FIRST AID INSTRUCTIONS

IF IN EYES:

Immediately flush with plenty of water for at least 15 minutes. Do not remove contact lenses, if worn. Get 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 or call Poison Control Center.

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. 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 and the cleanup of spills contact the Provincial/Territorial Regulatory Agency or the Manufacturer.

STORAGE AND HANDLING

UCARCIDE(R) 145LT 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-line steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -29'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(R) 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

UCARCIDE® 145LT Antimicrobial should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeably contaminated, add 100 to 5600 ppm UCARCIDE® 145LT Antimicrobial (0.1 to 5.6 liters UCARCIDE® 145LT Antimicrobial per 1000 litres flood water). Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 22 to 5600 ppm UCARCIDE® 145LT Antimicrobial (0.02 to 5.6 liters UCARCIDE® 145LT Antimicrobial per 1000 liters flood water) to the system weekly, or as needed to maintain control.

DRILLING, COMPLETION, AND WORKOVER FLUIDS

UCARCIDE® 145LT Antimicrobial should be added to a drilling fluid

system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 60 to 1110 ppm UCARCIDE® 145LT Antimicrobial (0.8 to 16.7 liters UCARCIDE® 145LT Antimicrobial per 100 barrels of fluid) to a freshly prepared drilling fluid, depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 60 to 1110 ppm UCARCIDE® 145LT Antimicrobial level 0.8 to 16.7 liters of UCARCIDE® 145LT Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS

UCARCIDE® 145LT Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating tank. Add 60 to 670 ppm UCARCIDE® 145LT Antimicrobial (0.8 to 10.6 liters UCARCIDE® 145LT 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

UCARCIDE® 145LT Antimicrobial should be added to a gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of UCARCIDE® 145LT 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 UCARCIDE® 145LT Antimicrobial with the appropriate solvent immediately before use. The concentration in the solvent should not fall below the 560 to 5560 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 UCARCIDE® 145LT Antimicrobial to produce a concentration of 560 to 5560 ppm UCARCIDE® 145LT 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 UCARCIDE® 145LT Antimicrobial to produce a concentration of 220 to 2220 ppm UCARCIDE® 145LT 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 110 to 4440 ppm UCARCIDE® 145LT Antimicrobial (0.1 to 4.4 liters UCARCIDE® 145LT Antimicrobial per 1000 liters water), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS

Add UCARCIDE® 145LT 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 UCARCIDE® 145LT Antimicrobial should be added to produce a concentration of 0.1 to 1.1% (0.1 to 1.1 liters UCARCIDE® 145LT Antimicrobial per 100 liters water), depending on the length of the pipeline and the severity of biofouling.

NOTICE TO BUYER

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

BEFORE HANDLING OR USING, READ AND UNDERSTAND CURRENT UNION CARBIDE MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.

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