



# Baker Petrolite

Baker Petrolite Corp  
12645 W. Airport Blvd.  
Sugar Land, TX 77478 U.S.A.

## EMERGENCY TELEPHONE NUMBERS

CHENTREC: 800-424-9300  
CANUTEC: 613-996-6666  
Customer Care: 800-872-1916

# X-CIDE® 600

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE. CAUSES EYE AND SKIN DAMAGE. AVOID BREATHING DUST. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WEAR GOGGLES OR FACE SHIELD AND RUBBER GLOVES WHEN HANDLING. MAY BE FATAL IF SWALLOWED. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

#### ENVIRONMENTAL HAZARDS

THIS PESTICIDE 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. DO NOT CONTAMINATE WATER BY CLEANING OF EQUIPMENT OR DISPOSAL OF WASTE.

#### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: DRINK EGG WHITES, GELATIN SOLUTION, OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. CALL A PHYSICIAN.  
IF INHALED: REMOVE PERSON TO FRESH AIR.  
IF ON SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.  
IF IN EYES: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. CALL A PHYSICIAN.

#### PHYSICAL OR CHEMICAL HAZARDS

PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

#### DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

ALL REFERENCES TO PPM ARE PPM-ACTIVE INGREDIENT.

**WATERFLOOD:** TO INHIBIT THE GROWTH OF ANAEROBIC AND AEROBIC BACTERIA IN ALL WATERFLOOD BASE FLUIDS USED IN THE RECOVERY OF OIL AND GAS RESERVOIRS, ADD X-CIDE 600 INDUSTRIAL MICROBIOCIDAL AS A DRY PRODUCT OR PRE-DISSOLVE IN ANY BASE FLUID, OR INJECT DIRECTLY AT THE WELL HEAD.

**FREQUENCY AND DOSE:** X-CIDE 600 INDUSTRIAL MICROBIOCIDAL SHOULD BE ADDED CONTINUOUSLY TO WATERFLOOD FLUIDS OR SLUG-DOSED DEPENDING ON THE BOTTOM HOLE TEMPERATURE AND FLUID CHEMISTRY AT THE RATE OF 25-100 PPM (0.009 TO 0.036 LBS PER BARREL) DEPENDING ON THE QUALITY OF THE BASE FLUID.

**ENHANCED OIL RECOVERY (EOR):** FOR THE EFFECTIVE CONTROL OF BACTERIAL GROWTH AND ELIMINATING DEGRADATION OF EOR GELS AND FLUIDS USED IN THE OIL AND GAS INDUSTRY, AND X-CIDE 600 INDUSTRIAL MICROBIOCIDAL DURING MIXING AS A DRY PRODUCT OR PRE-DISSOLVE OR ADD BY INJECTION DURING THE EOR PROCEDURE.

**FREQUENCY AND DOSE:** X-CIDE 600 INDUSTRIAL MICROBIOCIDAL SHOULD BE ADDED THROUGHOUT THE EOR OPERATION AT THE RATE OF 50-100 PPM (0.018-0.036 LBS PER BARREL) DEPENDING ON THE QUALITY OF THE MAKEUP WATER.

**DRILLING FLUIDS AND WORKOVER AND COMPLETION FLUIDS:** TO INHIBIT THE GROWTH OF CELLULOLYTIC, SLIME-FORMING OR SULFATE-REDUCING BACTERIA IN OIL AND GAS WELL DRILLING MUDS AND BRINES, X-CIDE 600 INDUSTRIAL MICROBIOCIDAL MAY BE USED AS THE SOLID OR PRE-DISSOLVED IN A QUANTITY OF WARM WATER, THEN DOSED DIRECTLY INTO THE MUD OR BRINE.

**FREQUENCY AND DOSE:** A SINGLE SLUG DOSE ONCE TO THREE TIMES EACH 24 HRS. DOSING MAY BE LESS FREQUENT WHERE CONTAMINATION IS LOW. EACH SLUG DOSE SHOULD BE 0.018 TO .036 POUNDS PER BARREL (APPROXIMATELY 50 PPM-100 PPM) TOTAL MUD VOLUME.

**PRODUCED WATER:** TO INHIBIT THE GROWTH OF SLIME-FORMING OR CORROSION-INDUCING SULFATE-REDUCING BACTERIA IN FORMATION WATER PRODUCED BY WELLS TOGETHER WITH OIL AND GAS, X-CIDE 600 INDUSTRIAL MICROBIOCIDAL MAY BE USED AS THE SOLID OR PRE-DISSOLVED IN A QUANTITY OF WARM WATER OR ALCOHOL, THEN INJECTED INTO THE WATER-CONTAINING OIL OR GAS STREAM AT ANY CONVENIENT POINT. IT SHOULD BE INJECTED IN SLUG DOSES, NOT AS A CONTINUOUS FEED.

# X-CIDE® 600

## Industrial Microbiocide

FOR USE IN INDUSTRIAL PROCESSES ONLY.  
NOT FOR DOMESTIC USE.

ACTIVE INGREDIENT:  
2-Bromo-2-nitropropane-1,3-diol..... 97.5%  
INERT INGREDIENTS:..... 2.5%  
100.0%

### KEEP OUT OF REACH OF CHILDREN

### DANGER

## ACCEPTED

AUG 24 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10707-53

EPA REG. NO. 10707-53  
EPA EST. NO. 10707-TX-007  
EPA EST. NO. 10707-TX-008

Read Product Material Safety Data Sheet prior to use. PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND THEREON. Use of Product signifies agreement with these provisions.

Lea la hoja de datos de seguridad de materiales del producto antes de usarlo. LA GARANTIA DEL PRODUCTO, EL DESCARGO Y LA LIMITACION DE RESPONSABILIDAD SE ENCUENTRAN EN DICHS DOCUMENTOS. El uso del producto significa acuerdo con estas disposiciones.

600-5-00

10707-53

8/24/2000

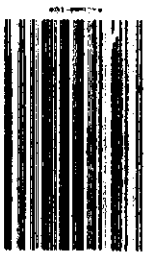
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NET LBS 440 GROSS LBS 465  
NET KGS 199.5 GROSS KGS 210.9

LOT#

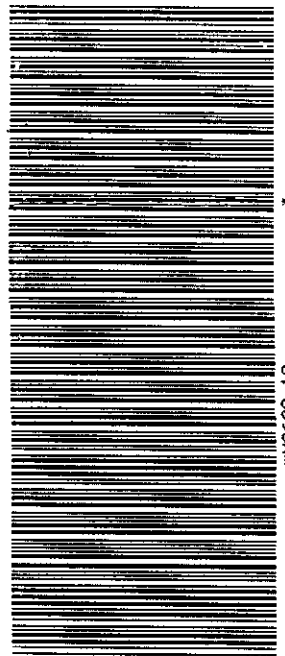
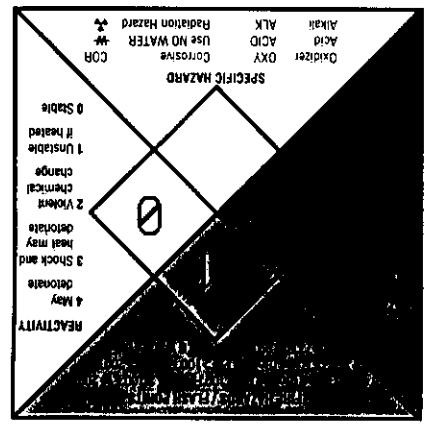
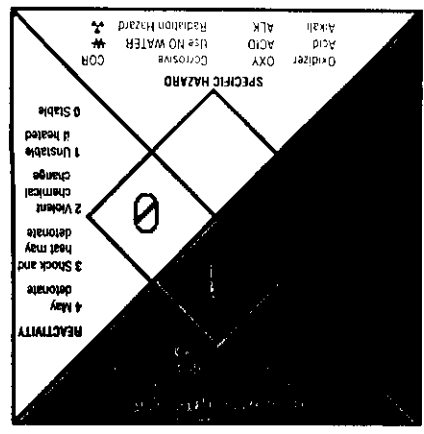
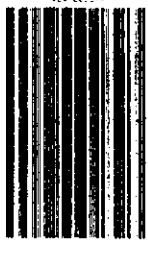
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X-CIDE® 600



10-00930X

FREQUENCY AND DOSE: DEPENDING ON SEVERITY AND RAPIDITY OF CONTAMINATION, X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE SLUG-DOSED FROM ONCE A WEEK TO ONCE A MONTH WITHIN 0.18-0.086 LBS PER BARREL.

WELL SQUEEZE FLUIDS: FOR THE EFFECTIVE CONTROL OF AEROBIC AND ANAEROBIC BACTERIA IN SQUEEZE FLUIDS AND DOWNHOLE WELL BORE AREAS, 600 X-CIDE 600 INDUSTRIAL MICROBIOCIDIC DURING PRE-MIXING OF THE WELL SQUEEZE FLUID OR (IN THE CASE OF DIRECT MIX INJECTION SYSTEMS) AN AQUEOUS SOLUTION MAY BE ADDED BY DIRECT INJECTION AT THE WELL HEAD DURING THE WELL SQUEEZE PROCEDURE.

FREQUENCY AND DOSE: X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE USED FOR EACH WELL SQUEEZE OPERATION IN ENSURE BEST RESULTS. ADD X-CIDE 600 INDUSTRIAL MICROBIOCIDIC AT A RATE OF 0.21-1.58 LBS/1000 GALLONS (APPROXIMATELY 25 PPM-190 PPM) DEPENDING ON THE QUALITY OF THE MAKEUP WATER.

INJECTION FLUIDS: FOR THE CONTROL OF CONTAMINATION AND CORROSION FROM BACTERIAL SOURCES IN FLUIDS/WASTE FLUIDS THAT ARE DISPOSED OF THROUGH INJECTION INTO AN APPROVED WELL FOLLOWING APPROVED GUIDELINES, ADD X-CIDE 600 INDUSTRIAL MICROBIOCIDIC AS A DRY PRODUCT OR PRE-DISSOLVE IN EACH VOLUME OF FLUID PRIOR TO INJECTION.

FREQUENCY AND DOSE: X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE ADDED AT A RATE OF 50-100 PPM (0.018-0.086 LBS PER BARREL) BASED ON THE WATER PRESENT OF THE INJECTION FLUID.

FRACURING FLUIDS: X-CIDE 600 INDUSTRIAL MICROBIOCIDIC REDUCES BACTERIAL CONTAMINATION AND DEGRADATION OF FRACURING GELS AND FLUIDS USED IN WELL STIMULANTS IN THE OIL AND GAS INDUSTRY. X-CIDE 600 INDUSTRIAL MICROBIOCIDIC MAY BE ADDED DURING PRE-MIXING OF THE FRACURING FLUID OR (IN THE CASE OF DIRECT MIX/INJECTION SYSTEMS) AN AQUEOUS SOLUTION MAY BE ADDED BY DIRECT INJECTION AT THE HEAD DURING THE FRACURING PROCEDURE.

FREQUENCY AND DOSE: X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE USED FOR EACH FRACURING OPERATION TO ENSURE BEST RESULTS. X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE ADDED AT A RATE OF 0.42-0.84 LBS/1000 GALLONS (APPROXIMATELY 50 PPM-100 PPM) DEPENDING ON THE QUALITY OF THE MAKEUP WATER.

WATER BOTTLERS IN OIL STORAGE OR TRANSPORTATION TANKS: FOR EFFECTIVE CONTROL OF BACTERIAL CONTAMINATION IN WATER BOTTLERS, IN CRUDE, AND REFINED HYDROCARBON STORAGE SYSTEMS, ABOVE AND BELOW GROUND STORAGE TANKS AND LARGE MARINE SYSTEMS ARE ALL SUITABLE FOR X-CIDE 600 INDUSTRIAL MICROBIOCIDIC. THIS CONCENTRATE MAY BE PRE-DISSOLVED IN WARM WATER TO GIVE UP TO 20% CONCENTRATE. THIS CONCENTRATE CAN BE INJECTED DIRECTLY INTO THE WATER BOTTLING OR CARRIER SOLVENT FOR ADDITION OF X-CIDE 600 INDUSTRIAL MICROBIOCIDIC TO THE WATER. THIS CONCENTRATE CAN BE INJECTED DIRECTLY INTO THE PIPELINE OR MAY BE ADDED TO THE HYDROCARBON PHASE. USING CARRIER SOLVENT ADDITION OF THE X-CIDE 600 INDUSTRIAL MICROBIOCIDIC WILL PRODUCE LONG TERM WATER PHASE CONCENTRATIONS BY DIFFUSION PROCESS.

FREQUENCY AND DOSE: DIRECT ADDITION TO THE WATER PHASE SHOULD BE CARRIED OUT EVERY 30-60 DAYS. USING A CARRIER SOLVENT FOR ADDITION TO THE HYDROCARBON PHASE WILL PROVIDE LONGER TERM WATER PHASE CONCENTRATIONS DEPENDING ON FREQUENCY OF HYDROCARBON MOVEMENT, DRAINING OF WATER BOTTOM, AND OTHER FACTORS. X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE DOSED AT A RATE WHICH WILL ACHIEVE CONCENTRATIONS OF 50-100 PPM IN THE AQUEOUS PHASE. WHEN USING A CARRIER SOLVENT, HIGHER INITIAL CONCENTRATIONS MAY BE USED TO ALLOW DIFFUSION INTO THE AQUEOUS PHASE.

PIPELINE MAINTENANCE: TO CONTROL AEROBIC AND ANAEROBIC BACTERIA, PARTICULARLY SULFATE-REDUCING BACTERIA, GROWTH IN OIL AND GAS RELATED PRODUCTION PIPING AND TRANSPORTATION SYSTEMS, PRE-DISSOLVE X-CIDE 600 INDUSTRIAL MICROBIOCIDIC IN WARM WATER OR IN A CARRIER SOLVENT TO GIVE UP TO 20% CONCENTRATE. THIS CONCENTRATE CAN BE INJECTED DIRECTLY INTO THE PIPELINE OR MAY BE ADDED TO THE HYDROCARBON PHASE. USING CARRIER SOLVENT ADDITION OF THE X-CIDE 600 INDUSTRIAL MICROBIOCIDIC WILL PRODUCE LONG TERM WATER PHASE CONCENTRATIONS BY DIFFUSION PROCESS.

FREQUENCY AND DOSE: CARRIER ADDITIONS WILL VARY WITH THE DEGREE OF CONTAMINATION AND VOLUME OF FLUIDS THROUGH THE PIPELINE. SLUG TREATMENTS ARE RECOMMENDED AND CAN VARY FROM DAILY TO MONTHLY TO CONTROL GROWTH. X-CIDE 600 INDUSTRIAL MICROBIOCIDIC SHOULD BE DOSED AT A RATE WHICH WILL ACHIEVE CONCENTRATIONS OF 25-200 PPM IN THE AQUEOUS PHASE. WHEN USING A CARRIER SOLVENT, HIGHER CONCENTRATIONS MAY BE USED TO ALLOW DIFFUSION INTO THE AQUEOUS PHASE. DOSE WILL DEPEND ON THE VOLUME OF OIL OR CRUDE AND THE EXPECTED WATER FRACTIONS.

STORAGE AND DISPOSAL

STORAGE: DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. KEEP AWAY FROM HEAT. PESTICIDE DISPOSAL: PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS BIOCIDIC, SPRAY MIXTURE OR RINSEATE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE DISPOSED AS BY USE ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OFFICE OR FEDERAL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE.

CONTAINER DISPOSAL: COMPLETELY EMPTY LINED BY SHAKING AND TAPPING SIDES AND BOTTOM TO LOOSEN ANY REMAINING PARTICLES. COMPLETELY EMPTY RESIDUE INTO APPROPRIATE EQUIPMENT. DO NOT REUSE CARTRON OR LINER. DISPOSE OF EMPTY CARTRON AND EMPTY LINER IN A SANITARY LANDFILL OR BY INCINERATION. IF ALLOWED BY STATE AND LOCAL AUTHORITIES, IF BURNED, STAY OUT OF SMOKE.

Net Contents 55 U. S. Gallons at 60° F