

See MSDS for exposure limits of components.

**PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS AND DOMESTIC ANIMALS**

**DANGER  
KEEP OUT OF REACH OF CHILDREN**

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

Do not get in eyes, on skin or 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.

**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.

**PHYSICAL PROPERTIES**

Specific Gravity at 20°/20°C	1.086	Solubility in Water at 20°C	Complete
Vapor Pressure at 20°C	16.4 mm Hg	Solubility of Water at 20°C	Complete
Freezing Point	-10°C	pH at 25°C	3.1 to 4.5

**STORAGE AND HANDLING**

BACTRON K-31 solutions are corrosive to 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 at about -10°C (14°F). 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 100°F can be tolerated but the preferred maximum storage temperature is about 60°F.

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

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL.** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal: Metal Containers or Plastic Containers.** Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Do not cut, or weld on or near metal containers.

**Plastic Containers:** May be incinerated, if allowed by state and local authorities. If burned, stay out of smoke.

**Metal Containers:** Must not be incinerated.

#1506 (REV. 02/94)

PM 31

8133-20

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**BACTRON K-31  
ANTIMICROBIAL**

**MICROBIOCIDAL FOR USE IN CONTROLLING  
SULFATE-REDUCING BACTERIA IN OIL WELL DRILLING  
AND OIL FIELD PROCESSING APPLICATIONS**

**Active Ingredients**

Glutaraldehyde 25%

**Inert Ingredients**

75%

100%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

**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.

**Note to Physician:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Sold By:



3355 W. Alabama Ste. 400 • Houston, TX 77098

Health	2
Fire	0
Reactivity	0
Personal Protection	---

EPA REG. NO:

08133-20

EPA EST. NO:

08133-TX-01

08133-CA-01

08133-LA-02

DOT Shipping:

Corrosive Liquids, N.O.S., (contains glutaraldehyde), 8, UN 1760, PG II

Container Size:

55 gals. 5 gals.

Net Weight:

486 lbs. 44 lbs.

**IN CASE OF EMERGENCY, CALL CHAMPION TECHNOLOGIES AT  
713-431-2561 OR CHEMTREC AT 1-800-424-9300**

**Directions for Use**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Use BACTRON K-31 MICROBIOCIDAL as directed. The frequency of addition of microbiocide needed depends on many factors. To optimize your use of BACTRON K-31 MICROBIOCIDAL, follow this procedure.

**Drilling Muds:**

1. Calculate the total volume of the drilling mud system. Using this volume, calculate the number of gallons of microbiocide needed to produce a concentration of approximately 200 ppm BACTRON K-31 MICROBIOCIDAL. For example, 85 gallons of microbiocide per each 1000 barrels of total volume will produce this dilution.
2. While the system is circulating, add the microbiocide in a thin stream.
3. As the depth increases (increasing the total volume of the system) add additional microbiocide to maintain the proper concentration.

**Workover Fluids:**

1. Calculate the total volume of the workover fluid system. Using this volume, calculate the number of gallons of microbiocide needed to produce a concentration of approximately 2000 ppm BACTRON K-31 MICROBIOCIDAL. For example, 85 gallons of microbiocide per each 1000 barrels of total volume will produce this dilution.
2. Add the microbiocide.
3. Circulate the workover fluid system until the fluid returns clear.
4. Shut the system down and idle for several hours.
5. Remove the workover fluid. The well should be ready for productive use.

**Oil Well Water Floods:**

1. Calculate the total volume of the water flood system. Using this volume, calculate the number of gallons of microbiocide needed to produce a concentration of approximately 150 ppm BACTRON K-31 MICROBIOCIDAL. For example, 6.3 gallons of microbiocide per each 1000 barrels of total volume will produce this dilution.
2. Add the microbiocide as a slug or intermittently.
3. The addition of 50 ppm BACTRON K-31 MICROBIOCIDAL each week is recommended to maintain bacterial control. This may be accomplished by adding 2 gallons of microbiocide to each 1000 barrels of total volume.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label, (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon reasonable experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label direction, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**ACCEPTED**  
MAR 20 1994  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 8133-20

**BEST AVAILABLE COPY**