

PRECAUTIONARY STATEMENTS

WARNING

Hazardous to Humans and Domestic Animals

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine outfalls. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge treated effluent into lakes, streams, ponds or public waters unless in accordance with a NPDES permit. For guidance contact your Regional Office of the EPA.

KNOCKOUT BF-30 is a highly effective fungicide and bactericide for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, air washers, evaporative condensers, pulp and paper mills, cane and beet sugar mills, and drilling fluids.

STORAGE AND DISPOSAL

1. PROHIBITIONS

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

2. PESTICIDE DISPOSAL

Pesticide, spray mixture, or residue that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

3. CONTAINER DISPOSAL

(a.) Recycle container and offer for reconditioning, or

(b.) Triple rinse (or equivalent) and

Offer for recycling, reconditioning, or disposal in approved land fill, or bury in a safe place.

4. GENERAL

Consult Federal, State or Local Disposal Authorities for approved alternative procedures.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

DRILLING FLUIDS

KNOCKOUT BF-30 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in water-based drilling muds. It is especially useful in muds containing starches, xanthanate gums, and wood sugars. The uncontrolled growth of these fungi and bacteria can cause increased corrosion, undesirable odors, and degradation of the drilling mud, especially fluid loss properties.

KNOCKOUT BF-30 is used at the rate of 1 to 5 gallons per 100 bbl. of mud (0.02% to 0.1%). It can be used directly from the shipping container or pre-diluted with water. It can be put in through the mud hopper or added to the pump suction.

Secondary & Tertiary Petroleum Recovery

KNOCKOUT BF-30 can be used to control fungi and bacteria in secondary and tertiary petroleum recovery waterflood systems. KNOCKOUT should be injected directly from the shipping container. It should be thoroughly mixed into the produced water, fresh or salt water or commingled water of the secondary or tertiary oil recovery waterflood systems for effective microorganism control. It may also be diluted with water for injection.

KNOCKOUT BF-30 is used at the rate of 1 pint per 100 bbl. of water for growth inhibition of *Bacillus Cereus* and *Desulfovibrio desulfuricans* and 1 quart per 100 bbl. of water for *Pseudomonas fluorescens*. It is also effective against many fungi, such as *Aspergillus*, *Penicillium* and *Trichoderma* at 1 pint per 100 bbl. of water.

Workover & Completion Fluids

KNOCKOUT BF-30 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in water-based workover and completion fluids. KNOCKOUT is used at the rate of 1.4 quarts per 1000 gallons (0.025% to 0.100%) of workover or completion fluids.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS

Dosage for industrial recirculating water cooling towers or evaporative condensers will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply KNOCKOUT BF-30 to the cleaned system or when growth is first noticed, according to the following schedule:

Initial Dose: Apply 13.08 ounces of product per each 1000 gallons of water in the system (120 ppm). This dose may be repeated once, twice or three times weekly or as required to control the growth of slime forming organisms.

ACTIVE INGREDIENTS

Sodium Dimethyldithiocarbamate 15%

Nabam (Disodium Ethylene

Bisdithiocarbamate)..... 15%

INERT INGREDIENTS

70%

TOTAL

100%

KEEP OUT OF REACH OF CHILDREN

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

See Side Panel For Additional Precautionary Statements.



Manufactured By:
Stoller Chemical Company, Inc.
8582 Katy Freeway
Houston, Texas 77024

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

EPA Est. No 22555-TX-1

EPA Reg. No 22555-B

Net Contents, Liquid

See Markings on Top of Drum for Net Weight

Subsequent Dose: When microbial control is evident, add 2.18 to 4.36 fluid ounces of KNOCKOUT BF-30 per 1000 gallons of water (20-40 ppm) in the system every three days or as needed.

PAPER MILLS

Dosage will vary from 0.1 to 2.0 pounds (4 to 6 quarts) of KNOCKOUT BF-30 per ton of finished paper depending on the type of stock, consistency of the system, quality of raw water, and type and degree of contamination.

Feeding

KNOCKOUT BF-30 may be drip fed continuously from the drum or fed by suitable chemical pumps such as adjustable proportioning types, variable speed, positive displacement types, or by the reciprocating type. This product should be fed as early as possible in the system at such points including the hydropulper, machine chest or broke system.

KNOCKOUT BF-30 can be used to control slime on machines which can make paper and paperboard for use in food packaging. KNOCKOUT BF-30 complies with Title 21 Code of Federal Regulations section 176.300 of the Food Additive Regulations and may be used under conditions specified in the regulations.

AIR WASHERS

In treating air washer systems, pre-treat by introducing a suitable detergent solution into the system and allow air washer to run with fan off for two hours. Flush. Check all nozzles and manually clean those that are plugged. Add product as specified under dosages for Cooling Towers.

Feeding

KNOCKOUT BF-30 may be fed directly from the drum or diluted with water and fed by any suitable feed system. KNOCKOUT BF-30 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

CANE SUGAR MILLS

KNOCKOUT BF-30 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend on mill design. Frequently the dosage will be split between the crusher juice and juice from the last mill. The best addition point is to the juice which is circulated back to the crusher from the first mill. Do not add this product to the maceration water.

KNOCKOUT BF-30 should be fed continuously at the rate of 10-20 parts of product per million parts of cane ground per day. 10 ppm of product is the standard dosage. This may be raised up to a maximum of 20 ppm, if necessary. Conditions warranting some increase would be warranted when grinding cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

Proper feed of KNOCKOUT BF-30 is best obtained through the use of a chemical feed pump such as the adjustable proportioning type; the variable speed, positive displacement type, or the reciprocating type. The required dosage will depend on the average daily rate of cane ground. Refer to composite table 1 for the proper dosage in milliliters and ounces of KNOCKOUT BF-30 to be used per minute.

Do not exceed feed rate of 4 gallons (39.2 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

The use of KNOCKOUT BF-30 does not replace good housekeeping. This should include regular cleaning at least once per shift. Regular hosing of mills bagacillo conveyors and screens with hot water and steam is essential for maintaining efficient control of microbiological slime and sucrose losses.

BEET SUGAR MILLS

KNOCKOUT BF-30 should be fed directly into the raw juice during sugar extraction of beets to keep equipment free of bacterial slime deposits. It is to be used at the rate of 10-20 ppm of raw beets sliced and fed continuously into the pulp press water tank with a metering pump. The maximum rate to be fed is 20 ppm. Refer to composite table 1 for the proper dosage in milliliters and ounces of KNOCKOUT BF-30 to be used per minute.

COMPOSITE TABLE 1

SHORT TONS OF CANE GROUND OR RAW BEETS SLICED PER DAY	RATE OF FEED OF KNOCKOUT BF-30			
	10 ppm		20 ppm	
	ml/min	oz/min	ml/min	oz/min
1,000	5.5	0.186	11	0.372
2,000	11.0	0.372	22	0.744
3,000	16.5	0.558	33	1.115
4,000	22.0	0.744	44	1.487
5,000	27.5	0.930	55	1.859
6,000	33.0	1.115	66	2.231
7,000	38.5	1.301	77	2.603
8,000	44.0	1.487	88	2.974
9,000	49.5	1.673	99	3.346
10,000	55.0	1.859	110	3.718

This product complies with Title 21 Code of Federal Regulations Section 173.320 (Chemicals used for the Control of Microorganisms in Cane and Beet Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the regulations.

5C-721

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STORAGE AND DISPOSAL

1. **PROHIBITIONS**
Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
2. **PESTICIDE DISPOSAL**
Pesticide, spray mixture, or residue that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
3. **CONTAINER DISPOSAL**
(a) Reseal container and offer for reconditioning, or
(b) Triple rinse (or equivalent) and
Offer for recycling, reconditioning, or disposal in approved land fill, or bury in a safe place.
4. **GENERAL**
Consult Federal, State or Local Disposal Authorities for approved alternative procedures.

DIRECTIONS FOR USE GENERAL CLASSIFICATION

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

DRILLING FLUIDS

KNOCKOUT BF 30 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in water based drilling fluids. It is especially useful in muds containing starches, xanthanate gums, and wood sugars. The uncontrolled growth of these fungi and bacteria can cause increased corrosion, undesirable odors, and degradation of the drilling mud, especially fluid loss properties.

KNOCKOUT BF 30 is used at the rate of 1 to 5 gallons per 100 bbl. of mud (0.02% to 0.1%). It can be used directly from the shipping container or pre-diluted with water. It can be put in through the mud hopper or added to the pump suction.

Secondary & Tertiary Petroleum Recovery
KNOCKOUT BF 30 can be used to control fungi and bacteria in secondary and tertiary petroleum recovery waterflood systems. KNOCKOUT should be injected directly from the shipping container. It should be thoroughly mixed into the produced water, fresh or salt water or circulating water of the secondary or tertiary oil recovery waterflood systems for effective microorganism control. It may also be diluted with water for injection.

KNOCKOUT BF 30 is used at the rate of 1 pint per 100 bbl. of water for growth inhibition of *Bacillus Cereus* and *Desulfovibrio desulfuricans* and 1 quart per 100 bbl. of water for *Pseudomonas fluorescens*. It is also effective against many fungi such as *Aspergillus*, *Penicillium* and *Trichoderma* at 1 pint per 100 bbl. of water.

Workover & Completion Fluids
KNOCKOUT BF 30 is a highly effective microbicide for use in controlling the growth of fungi and bacteria found in water based workover and completion fluids. KNOCKOUT is used at the rate of 1.4 quarts per 1000 gallons (0.025% solution) of workover or completion fluids.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS

Usage for industrial recirculating water cooling towers or evaporative condensers will depend on the condition of the system. Prior to treatment in circulation systems which are heavily contaminated should be cleaned first. Apply KNOCKOUT BF 30 to the cleaned system or when growth is first noticed according to the following schedule:

Initial Dose: Apply 13.0 ounces of product per each 1000 gallons of water in the system (1.3 ppm). This dose may be repeated once, twice or three times weekly until the growth is controlled. Then follow the following schedule:

ACTIVE INGREDIENTS

Sodium Dimethyldithiocarbamate 15%
Nabam (Disodium Ethylene
Bisdithiocarbamate) 15%

INERT INGREDIENTS 70%

TOTAL 100%

KEEP OUT OF REACH OF CHILDREN

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

See Side Panel For
Additional Precautionary Statements.



Manufactured By
Stoller Chemical Company, Inc.
8582 Katy Freeway
Houston, Texas 77024

Stoller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and of handling of this material when such use and/or handling is contrary to label instructions.

EPA Est. No. 22555 TX 1

EPA Reg. No. 22555-8

Net Contents: Liquid

See Markings on Top of Drum for Net Weight

Subsequent Dose: When microorganism growth is evident, add 2.1 to 4.3 to 6.5 ounces of KNOCKOUT BF 30 per 1000 gallons of water (0.40 ppm) in the system every three days (or as needed).

PAPER MILLS

Usage: Apply from 0.1 to 2.0 pounds (0.4 to 0.6 parts) of KNOCKOUT BF 30 per ton of finished paper depending on the type of stock, consistency of the system, quality of raw water, and type and degree of contamination.

Feeding

KNOCKOUT BF 30 may be drip fed continuously from the drum or fed by suitable chemical pumps such as adjustable proportioning types, variable speed, positive displacement types, or by the reciprocating type. This product should be fed as early as possible in the system at such points including the hydropulper, machine chest or broke system.

KNOCKOUT BF 30 can be used to control slime on machines which can make paper and paperboard for use in food packaging. KNOCKOUT BF 30 complies with Title 21 Code of Federal Regulations section 176.300 of the Food Additive Regulations and may be used under conditions specified in the regulations.

AIR WASHERS

In treating air washer systems, pre-clean by introducing a suitable detergent solution into the system and allow air washer to run with fan off for two hours. Flush. Check all nozzles and manually clean those that are plugged. Add product as specified under dosages for Cooling Towers.

Feeding

KNOCKOUT BF 30 may be fed directly from the drum or diluted with water and fed by any suitable feed system. KNOCKOUT BF 30 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

CANE SUGAR MILLS

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KNOCKOUT BF 30 should be fed continuously at the rate of 10-20 parts of product per million parts of cane ground per day. 10 ppm of product is the standard dosage. This may be raised up to a maximum of 20 ppm, if necessary. Conditions warranting some increase would be warranted when grinding cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

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Do not exceed feed rate of 4 gallons (39.2 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

The use of KNOCKOUT BF 30 does not replace good housekeeping. This should include regular cleaning at least once per shift. Regular hosing of mills, bagasse conveyors and screens with hot water and steam is essential for maintaining efficient control of microbiological slime and sucrose losses.

BEET SUGAR MILLS

KNOCKOUT BF 30 should be fed directly into the raw juice during sugar extraction of beets to keep equipment free of bacterial slime deposits. It is to be used at the rate of 10 to 20 ppm of raw beets sliced and fed continuously into the pulp press water tank with a metering pump. The maximum rate to be fed is 20 ppm. Refer to composite table 1 for the proper dosage in milliliters and ounces of KNOCKOUT BF 30 to be used per minute.

COMPOSITE TABLE 1

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	ml/min	oz/min	ml/min	oz/min
1,000	55	0.106	11	0.372
2,000	110	0.372	22	0.744
3,000	165	0.558	33	1.115
4,000	220	0.744	44	1.487
5,000	275	0.930	55	1.859
6,000	330	1.115	66	2.231
7,000	385	1.301	77	2.603
8,000	440	1.487	88	2.974
9,000	495	1.673	99	3.346
10,000	550	1.859	110	3.718

This product complies with Title 21 Code of Federal Regulations Section 176.300 (Chemicals used for the Control of Microorganisms in Cane and Beet Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the regulations.