

**PETROLITE
CORPORATION**

TRETOLL

SAINI LOUIS, MISSO

WARNING

X-CIDE 15 Industrial Bactericide and Fungicide

FOR USE IN INDUSTRIAL PROCESSES ONLY. NOT FOR DOMESTIC USE. SEE DATA SHEET.

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**KEEP
OUT OF
REACH
OF
CHILDREN**

ACTIVE INGREDIENTS

Sodium Dimethyl-diazo-

Nonoxalate (1,1-Dimethyl-2,2-diazolane-5-carboxylate)

INERT INGREDIENTS

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 contact with food.

FIRST AID — In case of contact with eyes, flush eyes immediately with plenty of water for at least 15 minutes. If swallowed, induce vomiting. Remove and wash contaminated clothing.

If swallowed, drink plenty of water. Do not induce vomiting unless directed to do so by a physician. If you experience any symptoms, call your physician immediately.

55 U.S. GAL. AT 60° F.

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TRETOL

DIVISION

SAINT LOUIS, MISSO

WARNING

X-CIDE® 15 Industrial Bactericide and Fungicide

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ACTIVE INGREDIENTS	
Sodium Dimethyldithio- carbamate	15%
Nabam (Disodium Ethylene Bisdithiocarbamate)	15%
INERT INGREDIENTS	
	70%
	100%

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.

FIRST AID — 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.

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IDE® 15 Industrial icide and Fungicide

PROCESSES ONLY. NOT FOR DOMESTIC USE. SEE DATA SHEET.

EPA EST. NO. 5009-CA-1; MO-1
EPA REG. NO. 5009-23

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.

FIRST AID — 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.

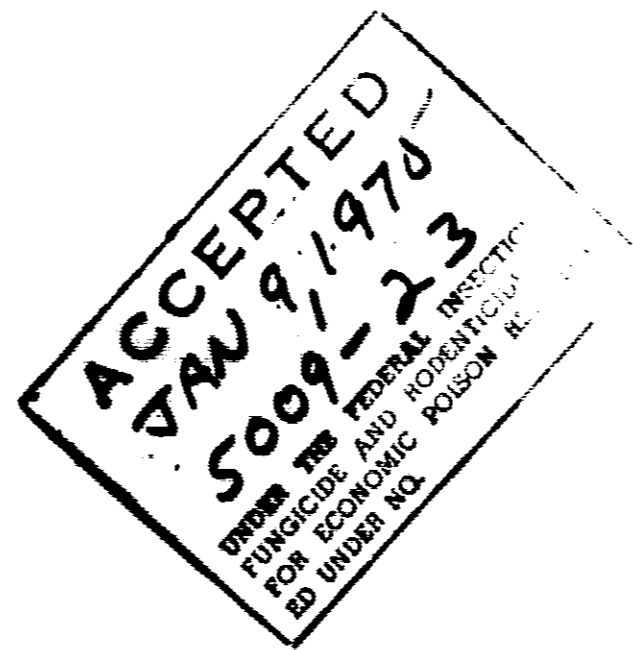
This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment, or disposal of wastes.

Do not reuse empty containers. Container should be destroyed by perforation or crushing. Discard container in a safe place.

Apply this product only as specified in the data sheet.

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TYPICAL PROPERTIES:

XCIDE 15 is a highly effective product for use in controlling the growth of bacteria and fungi found in industrial water cooling towers, air washers, evaporative coolers, mills, papermills and cane sugar mills. XCIDE 15 is recommended for potable water or where contamination cannot occur.

Active Ingredients

Sodium dimethyldithiocarbamate
Nabam (Disodium ethylene bisdithiocarbamate)

Inert Ingredients

pH 11.5 ± 1.0%
 Density 1.15 ± 1.20%
 Color Yellow green to green
 Transmittance 95% minimum
 Odor Hydrogen Sulfide
 Weight per U.S. gallon 9.8 pounds
 Storage Avoid extreme heat

HANDLING:

XCIDE 15 causes eye and skin irritation. Do not get on skin or clothing. Wear goggles or face shield and gloves when handling. Harmful if swallowed. Avoid contact with food.

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

If swallowed, drink promptly a large quantity of milk or gelatin solution, or if these are unavailable, drink water. Call a physician immediately.

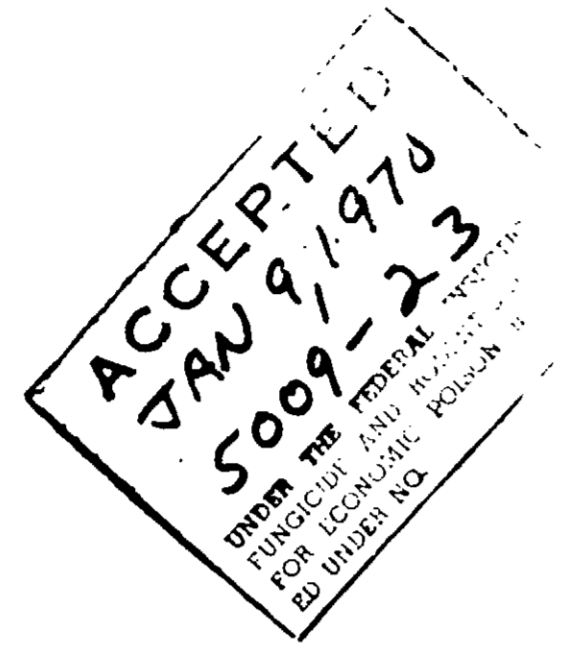
The following is a summary of dosage and feeding rates for each use of XCIDE 15.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE COOLERS

Dosages for industrial recirculating water cooling towers



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XCIDE 15

XCIDE 15 is a highly effective bactericide which inhibits the growth of bacteria and molds. It is used for cooling water, water cooling towers, air washers, condensers, pulp mills, paper mills, paper mills and cane sugar mills. XCIDE 15 is recommended for potable water or where contamination of water can occur.

TYPICAL PROPERTIES:

- Active Ingredients
 - Sodium dimerhydri-2-isocarbamate 10%
 - Nabam (Disodium ethylene bisdi-2-isocarbamate) .. 7%
- Inert Ingredients 70%
- ph 11.5 - 11.6
- Density 1.15 - 1.20
- Color Yellow-green to clear
- Transmittance 95% minimum
- Odor Hydrogen Sulfide
- Weight per U.S. gallon 9.8 pounds
- Storage Avoid extreme heat or freezing

HANDLING:

XCIDE 15 causes eye and skin irritation. Do not get in eyes, skin or clothes. Wear goggles or face shield and gloves when handling. Harmful if swallowed. Avoid contact with food.

In case of contact, immediately flush eyes or skin with clean water for at least fifteen (15) minutes. For eye contact, remove and wash contaminated contact lenses immediately.

If swallowed, drink promptly a large quantity of milk, water, gelatin solution, or if these are unavailable, plain water and lots of water. Call a physician immediately.

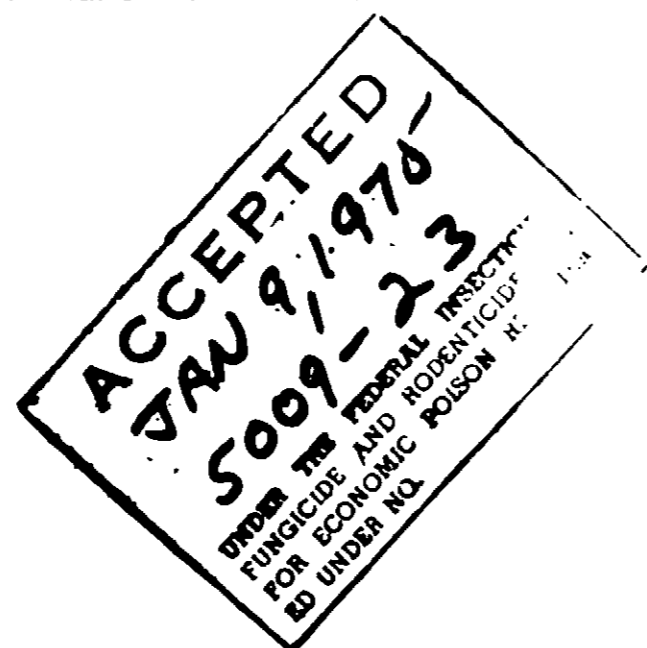
The following is a summary of the first aid treatment for eye contact with this product:

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Do not use in drinking water or in water used for drinking.



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XCIDE 15

XCIDE 15 is a highly effective product for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, air washers, evaporative condensers, pulp mills, papermills and cane sugar mills. XCIDE 15 is not recommended for potable water or where contamination of potable water can occur.

TYPICAL PROPERTIES:

- Active Ingredients
 - Sodium dimethyldithiocarbamate 15.
 - Nabam (Disodium ethylene bisdithiocarbamate) 15.
- Inert Ingredients 70.0
- ph 11.5 - 1.0%
- Density 1.15 - 1.20%
- Color Yellow green to green
- Transmittance 95% minimum
- Odor Hydrogen Sulfide
- Weight per U.S. gallon 9.8 pounds
- Storage Avoid extreme heat or freezing

HANDLING:

XCIDE 15 causes eye and skin irritation. Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

In case of contact, immediately flush eyes or skin with plenty of water for at least fifteen (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 unavailable, drink large quantities of water. Call a physician immediately.

The following is a summary of dosage and feeding recommendations for each use of XCIDE 15.

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS

Dosages for industrial recirculating water cooling towers or evapor-



TRETOLITE

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ative condensers will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply XCIDE 15 to the cleaned system or when growth is first noticed, according to the following schedule:

Initial Dose

Apply 13.06 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.

Subsequent Dose

When microbial control is evident add 2.18 to 4.36 fluid ounces of XCIDE 15 per 1000 gallons of water (20-40 ppm) in the system every three days or as needed.

AIR WASHERS

In treating air washer systems preclean 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

XCIDE 15 may be fed directly from the drum or diluted with water and fed by any suitable feed system. XCIDE 15 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

PAPER MILLS

Dosage will vary from 0.1 to 2.0 pounds (0.04 to 0.8) amount of XCIDE 15 per ton of finished paper depending on the type of stock, complexity of the system, quality of the raw water, and type and degree of contamination.

FEEDING

XCIDE 15 may be drip fed continuously from the drum or fed by suitable chemical pumps such as adjustable proportional meter, variable speed, positive displacement type, or by the reciprocating type.

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Initial Dose

Apply 13.06 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.

Subsequent Dose

When microbial control is evident add 2.18 to 4.36 fluid ounces of XCIDE 15 per 1000 gallons of water (20-40 ppm) in the system every three days or as needed.

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

XCIDE 15 may be fed directly from the drum or diluted with water and fed by any suitable feed system. XCIDE 15 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

PAPER MILLS

Dosage will vary from 0.1 to 2.0 pounds (0.04 to 0.81 quarts) of XCIDE 15 per ton of finished paper depending on the type of stock, complexity of the system, quality of the raw water, and type and degree of contamination.

FEEDING

XCIDE 15 may be drip fed continuously from the drum or fed by suitable chemical pumps such as adjustable proportioning types; variable speed, positive displacement type, or by the reciprocating type.

This product should be fed to earthenware and other containers at points including the transfer line, main transfer line, or the station.

XCIDE 15 may be used to control climate in the processing of pulp, paper and paper-board for use in food packaging. It is approved with Title 21 - Code of Federal Regulations section 201.221(b)(1) and Food Additive Regulations and may be used under conditions specified in the regulations.

CANE SUGAR MILLS

XCIDE 15 is a liquid which should be fed directly into the cane juice so that the juice circulates to all parts of the mill system. The 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 juice which is circulated back to the crusher or first mill. Do not add this product to the maceration water.

XCIDE 15 should be fed continuously at the rate of 15-20 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 40 ppm, if necessary. Conditions warranting some increase will be grinding of cane damaged through freezing, poor weather or to get between cutting and grinding. See feeding directions which follow.

Proper feed of XCIDE 15 is best obtained through the use of a mechanical feeder such as the adjustable proportioning pump, the adjustable speed, positive displacement type, or the reciprocating flow. The required dosage will depend on the average daily rate of cane ground. The following chart shows the proper dosage in milliliters and ounces of XCIDE 15 to be used per minute.

Short tons of cane ground per day	Rate of feed (10 ppm)		Rate of feed (20 ppm)	
	ml/min.	oz./min.	ml/min.	oz./min.
1,000	3.4	0.117	6.8	0.234
2,000	10.7	0.344	21.4	0.702
3,000	16.1	0.511	32.2	1.053
4,000	21.4	0.702	42.9	1.338
5,000	26.8	0.870	53.7	1.659
6,000	32.2	1.122	64.4	2.014
7,000	37.5	1.309	75.1	2.335
8,000	42.9	1.426	85.8	2.656
9,000	48.3	1.603	96.6	2.977
10,000	53.7	1.870	107.4	3.298



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This product should be fed as early as possible in the system as such points including the hydropulper, machine chest or broke system.

XCIDE 15 may be used to control slime on machines which can make paper and paper-board for use in food packaging. XCIDE 15 complies with Title 21 - Code of Federal Regulations section 121.2505 of the Food Additive Regulations and may be used under conditions specified in the regulations.

CANE SUGAR MILLS

XCIDE 15 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 juice which is circulated back to the crusher to first mill. Do not add this product to the maceration water.

XCIDE 15 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 grinding of cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

Proper feed of XCIDE 15 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. The following chart shows the proper dosage in milliliters and ounces of XCIDE 15 to be used per minute.

Short tons of cane ground per day	Rate of feed (10ppm)		Rate of feed (20ppm)	
	ml. min.	oz. min.	ml. min.	oz. min.
1,000	5.4	0.187	10.7	0.374
2,000	10.7	0.374	21.4	0.748
3,000	16.1	0.561	32.2	1.122
4,000	21.4	0.748	42.9	1.496
5,000	26.8	0.935	53.7	1.870
6,000	32.2	1.122	64.4	2.244
7,000	37.6	1.309	75.2	2.618
8,000	43.0	1.496	85.9	2.992
9,000	48.4	1.683	96.7	3.366

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Do not exceed feed rate of 4 gals. (39.2 pounds) of product per 100 short tons of cane ground per twenty-four hours.

These dosages apply to cane sugar mills only. Do not use this product in beet sugar mills.

The use of XCIDE 15 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.

This product complies with Title 21 - Code of Federal Regulations Section 121.1155 (Chemicals used for the Control of Microorganisms in Cane-Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the Regulations. Do not use this product in beet sugar mills.

EPA Registration Number 5009 - 20.

Do not exceed feed rate of 4 gals. (39.2 pounds) of product per 100 short tons of cane ground per twenty-four hours.

These dosages apply to cane sugar mills only. Do not use this product in beet sugar mills.

The use of XCIDE 15 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.

This product complies with Title 21 - Code of Federal Regulations Section 121.1155 (Chemicals used for the Control of Microorganisms in Cane-Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the Regulations. Do not use this product in beet sugar mills.

EPA Registration Number 5009 - 23.