

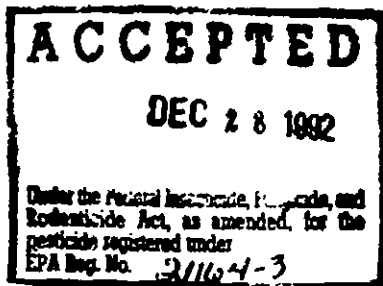
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9/11/92
Supercedes any
label dated prior
to 9/11/92

DURA KLOR

A Pre-activated and Stabilized Solution of Sodium Chlorite
That Provides a Controlled Release of Chlorine Dioxide at
the Point of Use Application.

ACTIVE INGREDIENT	
Sodium Chlorite	8.3%
INERT INGREDIENTS	
	91.7%
	100%



CAUTION

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water. Call a physician immediately.

If on skin: Wash with plenty of soap and water. Call a physician immediately.

If swallowed: Promptly drink large quantities of water. Do not induce vomiting. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contra-indicate the use of gastric lavage.

NET CONTENTS:

EPA Reg. No. 21164-3

EPA Est. No. 21164-CA-01

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 directions.

MANUFACTURED BY:

RIO LINDA CHEMICAL COMPANY INC.
410 N. 10th Street
Sacramento, CA 95814

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Irritant. Harmful if swallowed. Causes eye irritation. Avoid contact with skin, eyes or clothing. Irritating to nose and throat. Avoid breathing spray mist. In case of contact, immediately flush eyes and skin with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Treated effluent should not be discharged into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is addressed in a NPDES permit. Do not discharge effluent containing this product without prior notification of the applicable waste or sewer treatment authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT MIX WITH ACIDS or other chemicals except water. Mixing with acids or other chemicals may cause evolution of chlorine dioxide gas which is poisonous and explosive.

Do not let spilled solution evaporate to dryness; if resultant residue contacts oxidizable or combustible materials or the mixture is easily ignited by heat or friction. This results in a fiercely burning fire, or in a confined space, a possible explosion. Examples of such materials are cloth, paper, wood, sawdust, hydrocarbons such as greases, oils, and solvents, rubber, leather, plastics, and organic substances in general; also sulfur, sulfides, powdered metals, phosphorous and ammonium compounds.

EMERGENCY HANDLING

In case of contamination or decomposition, do not reseal container. Isolate in an open, well-ventilated location. Flood with large volumes of water.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Storage: Do not store this product with oxidizers, acids, reducing agents, or combustible materials. Store in a cool, dry well-ventilated location away from direct sunlight. Protect from freezing. Store upright and do not stack over two drums per pallet. A drum pump is recommended for transferring this material. Keep drums tightly closed when not in use. Store only in the original containers or approved storage containers and guard against cross-contamination with other pesticides, fertilizers, food and feed. Do not reuse containers.

Pesticide Disposal: Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Spills

In case of spills, dilute with large quantities of water and flush to a designated sewer in accordance with all applicable federal, state and local regulations. Alternatively, this product may be flushed to a collection basin or container for disposal. Comply with all applicable federal, state and local regulations regarding spill notification requirements.

DIRECTIONS FOR USE

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

AS A PAPER PROCESSING SLIMICIDE IN WHITE WATER SYSTEMS:

This product has FDA GRAS status when used as a slimicide in the manufacture of paper and paperboard that contacts food (21 CFR 186.1750).

Application Directions:

(1) If the pH of the white water is below 7.0, use 5 to 15 gallons of DURA KLOR per 100,000 gallons of white water to be treated, which corresponds to an active ingredient concentration of 3 to 9 ppm. Alternatively, use 2 to 4 gallons DURA KLOR per 100 tons of paper produced, which correlates to a dosage rate of 5 to 15 ppm active ingredient.

(2) If the pH of the white water is above 7.0, then add 1/2 gallon of 5% to 6% sodium hypochlorite as an activator with each 4 gallons of DURA KLOR.

Continuous proportioning of feed via a suitable metering pump is recommended for best results. In many cases, the amount can be reduced after the system is clean.

FOR ENCLOSED AND RECIRCULATING WATER SYSTEMS:

DURA KLOR should be injected at a point in the system where it will undergo uniform mixing. It is recommended that a slow feed rate be applied directly into the suction side of the system pump. Badly fouled systems should be clean prior to treatment.

(1) If the pH of the water system is less than 5.5, DURA KLOR should be applied as follows:

INITIAL DOSE

When the system is noticeably fouled, apply 1 gallon of DURA KLOR per 10,000 gallons of water in the system. Repeat dosage every 24 hours until acceptable microbiological quality is achieved. Usually 3 to 6 applications will suffice.

SUBSEQUENT DOSE

After acceptable microbiological quality is achieved, the system may be maintained by adding 3 doses of DURA KLOR every 14 to 24 days or as often as required for control. Each dose consists of 1 gallon of DURA KLOR per 10,000 gallons water in the system repeated every 24 hours for a total of 3 additions. Treatment may then be discontinued for another 14 to 24 days or until fouling again becomes evident.

(2) If the pH of the water system is greater than 5.5, DURA KLOR should be applied as follows:

Dilute each gallon of DURA KLOR to be added with 5 to 10 gallons water then adjust this mixture to a mildly acidic pH (2.5 to 5.5) with careful additions of a dilute (10% by weight maximum) acid/water mixture (e.g., muriatic, phosphoric, acetic, citric); an acidic mixture containing corrosion inhibitors, descalers, surfactants, or sequestrants; an aqueous solution of sodium hypochlorite; or an aqueous solution of hypochlorous acid. This pH adjusted pre-mix should then be added immediately to the given process

system at the above indicated dose rate of 1 gallon acidified or activated DURA KLOR pre-mix to 10,000 gallons system water. The DURA KLOR pre-mix should be injected into the system at a point where it will be uniformly diluted and mixed.

NOTE:

The addition of concentrated acids or mixtures of acids to undiluted DURA KLOR can cause the evolution of chlorine dioxide gas, which may be poisonous or explosive at high concentrations. Do not allow the chlorine dioxide concentration in the pre-mix to exceed 1500 ppm. Measurement of chlorine dioxide concentrations may be made with a Hach DPD chlorine test kit or by amperometric titration. Always consult you Rio Linda representative for guidance and analytical procedures before performing any acid additions to DURA KLOR.

Specific Applications:

DURA KLOR may be used to treat enclosed and recirculating systems in the following applications:

- A. Dairy: Sweet water systems to reduce microbiological levels.
- B. Farming: Irrigation systems for slime reduction in tubing and piping.
- C. Papermills: General water treatment to reduce microbiological growth.
- D. Oilfield: To improve secondary recovery process water quality.
- E. General Industrial Applications Including Food Processing: To reduce microbiological growth in cooling towers and industrial process water, including wash water of uncut and unpeeled fruits and vegetables. (Note: Residual concentrations of up to 5 ppm chlorine dioxide in process water may be used for washing whole uncut fruits and vegetables although a final potable water rinse is required if the residual exceeds 1 ppm).

FOR FOGGING AND MISTING APPLICATIONS:

DURA KLOR may be added to the plant misting or fogging systems to deodorize and to control odor causing bacteria, mold and mildew in food processing plants, dairies, bottling plants, poultry, meat and fish plants and animal facilities such as poultry houses, swine pens, calf barns and kennels.

Application Directions:

When fogging rooms with DURA KLOR care should be taken not to exceed the TLV-TWA of 0.1 ppm (0.30 mg/m³). If the TLV-TWA is to be exceeded, turn off air handlers and vacate people and livestock from the rooms to be fogged or misted. Ventilate for 15 minutes prior to reentry.

- (1) Mix 1.5 ml to 30 ml DURA KLOR per gallon of water. To this dilution, add a sufficient amount of 1 to 3% by weight of an aqueous food grade acid solution (phosphoric, citric, acetic, etc.) to lower the pH to 3.5 to 5.0.
- (2) Allow this diluted mixture to react for at least 15 minutes before adding to the plant fogging or misting system.
- (3) For best results, fogging or misting with diluted, acidified DURA KLOR should be done as close to the ceiling as possible.

NOTE:

Be careful not to add concentrated acid solutions to undiluted DURA KLOR as high concentrations of chlorine dioxide gas may evolve. The concentration of chlorine dioxide in the diluted DURA KLOR solution should not be allowed to exceed 0.5 ppm as determined by the Hach DPD method for chlorine dioxide detection. Please consult your Rio Linda representative for exact testing procedures before adding any acid to DURA KLOR.

The use of DURA KLOR in fogging or misting should be accompanied by a regular air monitoring program.

TO PREVENT CORROSION AND SLIME FORMATION IN OIL FIELD SECONDARY RECOVERY OPERATIONS:

Application Directions:

- (1) Prepare a working solution by diluting each gallon of DURA KLOR to be used with 6 gallons injection water.
- (2) Proportion 1 part of the diluted DURA KLOR solution into 130 to 140 parts reinjection water acidified to a pH of 3.0 to 4.0.
- (3) Increase or decrease the dose rate of the DURA KLOR solution as indicated by monitoring the microbial quality of the water.

TO DISINFECT AND SANITIZE AGAINST ODOR CAUSING BACTERIA ON HARD NON-POROUS SURFACES, SUCH AS WALLS, CEILINGS, FLOORS, DRAINS, PIPELINES, COUNTERS, SINKS, TILES:

- (1) Before disinfection or sanitization, remove gross debris, food and beverages from the surfaces to be cleaned.
- (2) Add 6.0 fluid ounces DURA KLOR per gallon of water to be used.
- (3) The DURA KLOR solution may be applied by spraying, misting, pouring, or wiping onto the surface to be treated. Allow the DURA KLOR solution to contact the surface for at least 5 minutes before wiping off.

FOR DEODORIZATION:

DURA KLOR effectively eliminates odors in the air and at their source.

- (1) Before deodorization, remove unopened and unwrapped food and beverages from the area to be treated.
- (2) Dilute a minimum of 0.5 fluid ounces of DURA KLOR per gallon of water to be used. For severe conditions, DURA KLOR may be used undiluted.
- (3) For room deodorization, spray, mist, or fog the DURA KLOR solution as needed. For best results, apply the DURA KLOR as near to the center of the area to be treated as possible.
- (4) For surface deodorization, spray, pour, or wipe the DURA KLOR on the effected area as often as necessary. For best results, allow to air dry for 10 minutes after treatment, and then rinse surfaces treated with potable water.

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TO CONTROL MOLD AND MILDEW:

DURA KLOR is effective in controlling mold and mildew on bathroom surfaces, shower stalls, on curtains, in laundry rooms, hampers, and on other surfaces where mold and mildew may be present.

- (1) Before treatment, remove gross filth and debris from the affected surfaces. Remove all open and unwrapped food and beverages from the vicinity.
- (2) Dilute a minimum of 12 fluid ounces of **DURA KLOR** per gallon of water to be used. For several applications, **DURA KLOR** may be used undiluted.
- (3) Spray, mist, fog, pour or wipe the **DURA KLOR** solution onto the surface to be treated. Allow the **DURA KLOR** to contact the surface for at least 5 minutes. Allow surfaces to drain and air dry. After 30 minutes, rinse with water. Repeat as necessary.