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CAIROX ZM® Free-Flowing Grade Potassium Permanganate

CAS Reg. No. 7722-64-7 Meets AWWA Standard B 603

Carus Chemical Company
Division of Carus Corporation
315 5th St.
Peru IL 61354
EPA Reg No. 8429-9
EPA Establishment No. 8429-IL-001

Line and the first start

Active Ingredient - Potassium Permanganate 97% Inert Ingredients 3%

CAIROX ZM® Free-Flowing Grade Potassium Permanganate is effective in the control of zebra mussels, biofilm, and other biofoulants such as plankton, algae and microorganisms in raw water intake lines of drinking water and industrial water treatment systems.

DIRECTIONS FOR USE

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

Add CAIROX ZM® Free-Flowing Grade Potassium Permanganate to raw water intake lines as early in the treatment system as possible, taking care to stay below the ANSI/NSF Standard 60 maximum use level of 50 mg/L. Concentrations required for oxidation of contaminants (typically up to 5 mg/L) are sufficient for the control of zebra mussels and other biofoulants. Actual effective doses should be determined using laboratory jar tests. Monitor CAIROX ZM® Potassium Permanganate Free-Flowing Grade to maintain a low residual concentration of less than 1 mg/L at the point of entry into the treatment plant. Limit residues of manganese in the finished potable water to no more than 0.05 mg/L.

Precautionary Statements Keep out of Reach of Children DANGER

When handling CAIROX ZM® Free-Flowing Grade Potassium Permanganate use safety goggles, rubber gloves and respirators. Avoid breathing dust. Do not take internally. Harmful if swallowed. Corrosive. Causes eye and skin damage. Avoid contact with eyes, skin, mucous membranes. Prolonged inhalation of manganese compounds above the permissible exposure limit may cause lung irritation and central nervous system disorders. If exposed, flood eyes with water for at least 15 minutes; wash skin thoroughly with soap and water; remove clothing for washing. See Material Safety Data Sheet for additional health and safety information.

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under

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Statement of Practical Treatment

Consult a doctor immediately after administering the following first aid:

If Swallowed: Never give anything by mouth to an unconscious or convulsing person. If conscious, give one or two glasses of water.

If in Eyes: Flood eyes with water for at least 15 minutes. In washing the eyes hold the lids ACCEPTED

open. Do not attempt to use chemical antidotes.

If on Skin: Wash thoroughly with soap and water.

If Inhaled: Remove to fresh air.

In Case of Fire or Spill

Under the Federal Insecticide, Fungicide, 204 Redenticide Act as amended, for the

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Fire: In case of fire, flood with water.

Spill: In case of spill, scoop into a clean drum. Spilled product must not be returned to original

drum. Flush contaminated area with large quantities of water.

Storage and Disposal

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

Storage

Protect container against physical damage. Store in a cool, dry area in closed containers. Segregate from heat, acids, peroxides, and other combustible, organic or easily oxidizable materials.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your local State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Rinse drums at least three times with water to an absence of pink color before disposing. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Environmental Hazards

This pesticide is toxic to birds and aquatic invertebrates. Do not use in facilities discharging directly or indirectly to estuarine or marine environments. Do not discharge into lakes, steams, ponds or public waters unless in accordance with the requirements of a National Pollution . 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.