

KORDEK 50 C

Industrial Microbicide

Industrial Microbicide For Use In Metalworking Fluid Concentrates, Polymer Latices, Paints and Coatings, Building Materials, Dispersed Pigments, Fuel, Adhesives and Tackifiers, And As A Tankside Additive For Metalworking Fluids.



Lot Number ()

ACTIVE INGREDIENT:
2-Methyl-4-isothiazolin-3-one 50.0%

INERT INGREDIENTS: 50.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER
STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
IF ON SKIN: Wash thoroughly with soap and plenty of water. Remove contaminated clothing and wash before re-use. Get medical attention if irritation occurs.
IF INHALED: Remove person to fresh air. Get medical attention.
IF SWALLOWED: Wash mouth thoroughly with plenty of water and give water or milk to drink. Get medical attention immediately. Do not give liquids to an unconscious person.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

PRECAUTIONARY HAZARDS TO HUMANS AND ENVIRONMENT

DANGER
CORROSIVE
CAUSES SEVERE EYE DAMAGE AND SKIN BURNING
MAY BE FATAL IF ABSORBED THROUGH THE SKIN
MAY CAUSE ALLERGIC SKIN REACTION
MAY BE FATAL IF INHALED

This product is a dermal sensitizer. Do not get in eyes. Wear protective clothing and rubber gloves. Wear a mask. Consult the National Safety and Health Administration and the National Institute for Occupational Safety and Health for more information. Keep container closed. Use only in well-ventilated areas. Wash thoroughly with soap and water after use.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and wildlife. Do not discharge into streams, ponds, estuaries, oceans, or other waters unless approved by the National Pollutant Discharge Elimination System (NPDES) permit system. Do not discharge into sewer systems without previously notifying the sewage treatment plant, State Water Board or Regional Office of the EPA. Do not use on or near water bodies. Apply this pesticide only as specified on the label.

Kordek 50C weighs 9.7 lbs per gallon

CONDITIONS OF SALE AND WARRANTY
Rohm and Haas warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage, and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. To be used only by technically qualified persons. This product is not cleared for use in those indirect food applications which are regulated by the Food and Drug Administration (FDA) under the Federal Food, Drug and Cosmetic Act.

Metalworking Fluid Preservation - Tankside Addition
Kordek 50C microbicide is recommended for the control of bacteria and fungi in water-extendible metalworking fluids (soluble oil, semi-synthetic and synthetic types). The preservative should be dispensed as a tankside additive into the circulating use-dilution of the metalworking fluid using a metering pump or by manual pouring, and uniformly dispersed throughout the system.

Dosing: Use Kordek 50C at 1.0 to 2.0 pints (1.2 to 2.4 lbs. or 75 to 150 ppm active ingredient) per 1000 gallons metalworking fluid every 1-6 weeks. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design.

Metalworking Fluid Concentrates
Kordek 50C microbicide is recommended for the control of bacteria and fungi in water-extendible metalworking fluids (soluble oil, semi-synthetic and synthetic types) when added to the metalworking fluid concentrates. Kordek 50C should be added to the concentrate at a level to ensure that the final use-dilution metalworking fluid will contain Kordek 50C at 150 to 300 ppm (75 to 150 ppm active ingredient). Refer to the below listed table for additional dosing details.

NOTE: Regardless of the manner of incorporation, the total active isothiazolone level in the system should at no time exceed 150 ppm in the final use dilution.

Dilution of Metalworking Fluid Concentrates		Dose Level	Wt % Kordek 50C In Concentrate	lbs. Kordek 50C per 100 Gal. Conc.	Quarts Kordek 50C per 100 Gal. Conc.	PPM Kordek 50C In Use Dilution	PPM Active Ingredient In Use Dilution
15:1	Minimum	0.23%	1.8 lbs	3/4 quart	150 ppm	75 ppm	
	Maximum	0.45%	3.6 lbs	1 1/2 quart	300 ppm	150 ppm	
20:1	Minimum	0.30%	2.4 lbs	1 quart	150 ppm	75 ppm	
	Maximum	0.60%	4.8 lbs	2 quarts	300 ppm	150 ppm	
25:1	Minimum	0.37%	3.0 lbs	1 1/4 quarts	150 ppm	75 ppm	
	Maximum	0.75%	6.0 lbs	2 1/2 quarts	300 ppm	150 ppm	

Polymer Latex Preservation
Kordek 50C microbicide is recommended for the control of bacteria and fungi in water-based coatings and storage of synthetic and carboxylated styrene/butadiene polymers. Add 0.2 - 0.5 pints (0.1 - 0.2 kilograms) of emulsion to product finishes, and special product finishes. Add 0.05% (0.5 kilograms) to each 1000 pints (1000 kilograms) of fluid to provide 150 - 300 ppm active isothiazolone.

Paint and Coating Preservation
Kordek 50C microbicide is recommended for the control of bacteria and fungi in building materials. Add 0.15 - 0.30 pounds of Kordek 50C microbicide to each 1000 pints (1000 kilograms) of fluid to provide 150 - 300 ppm active isothiazolone.

Building Material Preservation
Kordek 50C microbicide is recommended for the control of bacteria and fungi in building materials. Add 0.15 - 0.30 pounds of Kordek 50C microbicide to each 1000 pints (1000 kilograms) of fluid to provide 150 - 300 ppm active isothiazolone.

Dispersed Pigment Preservation
Kordek 50C microbicide is recommended for the control of bacteria and fungi in building materials. Add 0.05% (0.5 kilograms) to each 1000 pints (1000 kilograms) of fluid to provide 150 - 300 ppm active isothiazolone.

7-1597

LB KG
 LB KG
 LB KG

Product Code (91)

293

«LN

rates, used additive For



Lot Number ()

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

50.0%
 50.0%
 100.0%

**DANGER
 CORROSIVE
 CAUSES SEVERE EYE DAMAGE AND SKIN BURNS
 MAY BE FATAL IF ABSORBED THROUGH THE SKIN OR SWALLOWED
 MAY CAUSE ALLERGIC SKIN REACTION
 MAY BE FATAL IF INHALED**

Get medical
 contaminated clothing and
 or milk to drink.
 f gastric lavage.

This product is a dermal sensitizer. Do not get in eyes, on skin, or on clothing. Wear goggles, protective clothing and rubber gloves. Wear a mask or pesticide respirator jointly approved by Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Do not take internally. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

Kordek 50C weighs 9.7 lbs per gallon

purpose stated on the label
 MAKES NO OTHER
 PARTICULAR USE.
 Seller. Risks such as
 directions will be assumed
 CONSEQUENTIAL.
 THIS PRODUCT.

**STORAGE AND DISPOSAL
 PROHIBITIONS**

This product is corrosive to mild steel and may contaminate with strong oxidizing or reducing agents. Do not store in storage or disposal or cleaning of equipment.

PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. They must be disposed of in accordance with Federal law. If these wastes cannot be disposed of in accordance with State Pesticide or Environmental Control Act, contact the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

METAL CONTAINERS
 Triple rinse (or equivalent). Then off to a sanitary landfill, or by other procedure approved by the EPA.

PLASTIC CONTAINERS

Triple rinse (or equivalent). Then off to a sanitary landfill or by incineration, or by other procedure approved by the EPA. Do not stay out of smoke.

**GENERAL: CONSULT FEDERAL
 APPROVED ALTERNATIVE PROCEDURE**

Date of Manufacture: location for date of manufacture
 EPA Reg. No. 707-256
 EPA Est. No. establishment number

To be used only by technically qualified persons.
 registered with the Food and Drug Administration (FDA) under the

inhibitable metalworking fluids (soluble oil, semi-synthetic emulsifying use-dilution of the metalworking fluid using a

1 quart per 1000 gallons metalworking fluid every 1-6 months depending upon rate of dilution of the preservative with water. Effectiveness, system design.

inhibitable metalworking fluids (soluble oil, semi-synthetic emulsion) should be added to the concentrate at a level to ensure that the final dilution contains 150 ppm active ingredient. Refer to the below listed table for dilution rates. The final dilution system should at no time exceed 150 ppm in the final

Kordek 50C Gal. Conc.	PPM Kordek 50C In Use Dilution	PPM Active Ingredient In Use Dilution
1 quart	150 ppm	75 ppm
1 quart	300 ppm	150 ppm
1 quart	150 ppm	75 ppm
1 quart	300 ppm	150 ppm
1 quart	150 ppm	75 ppm
1 quart	300 ppm	150 ppm

Polymer Latex Preservation

Kordek 50C microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices including: acrylic; styrene/butadiene; carboxylated styrene/butadiene; ethylene/vinyl acetate; and biopolymers intended for industrial use, such as xanthan gum, gum arabic, guar gum, protein-derived polymers, starches and casein-derived polymers. Add 0.2 - 0.5 pounds Kordek 50C (0.09 - 0.23 grams) to each 1000 pounds (453 kilograms) of emulsion to provide 200 - 500 ppm product (100 - 250 ppm active isothiazolone).

Paint and Coating Preservation

Kordek 50C microbicide is recommended as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper and wood coatings and paints used for architectural product finishes, and special purpose coatings. Add 0.15 - 0.30 pounds of Kordek 50C (0.07 - 0.14 kilograms) to each 1000 pounds (453 kilograms) of fluid to provide 150 - 300 ppm product (75 - 150 ppm active isothiazolone).

Building Material Preservation

Kordek 50C microbicide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, spackling and grouting. Add 0.15 - 0.30 pounds of Kordek 50C (0.07 - 0.14 kilograms) to each 1000 pounds (453 kilograms) of fluid to provide 150 - 300 ppm product (75 - 150 ppm active ingredient).

Dispersed Pigment Preservation

Kordek 50C microbicide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin and montmorillonite clays, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, and magnesium silicate used in paint and paper products. Add 0.05 - 0.3 pounds of Kordek 50C (22.7 - 136.2 grams) to each 1000 pounds (453 kilograms) of fluid to provide 50 - 300 ppm product (25 - 150 ppm active ingredient).

Adhesive and Tackifier Preservation

Kordek 50C microbicide and fungi in water soluble latices, polyvinyl acetate emulsions, and other preservative for tackifier. Add 0.07 - 0.14 pounds of Kordek 50C (0.07 - 0.14 kilograms) to each 1000 pounds (453 kilograms) of fluid to provide 300 ppm product (75 - 150 ppm active ingredient).

Fuel Preservation

Kordek 50C microbicide is recommended as an in-container preservative for the control of bacteria and fungi in liquid hydrocarbon fuels, oils, coal slurries, liquefied natural gas, and other fuels used in aircraft and other propelled motor vehicles.

METHOD OF ADDITION

For storage tank or flowing system, add to the system in the fuel system. Slug test.

CURATIVE DOSE: WATER

per 10,000 gallons of fluid to provide 150 ppm active ingredient.

MAINTENANCE DOSE

Kordek 50C microbicide at 44 ppm of Kordek 50C microbicide to control microbial contamination.

FOR USE IN AVIATION

CONSULTED AS TO USE IN AVIATION ENGINES AND/OR AIRCRAFT.

7-15-97

LB KG
LB KG
LB KG

Product
Code
(91)

373

«LN1»

Container:
Code Number «SN1» Label Number 50CEPA

**VARY STATEMENTS
AND DOMESTIC ANIMALS**

**IN BURNS
ON THE SKIN OR SWALLOWED**

Get into eyes, on skin, or on clothing. Wear goggles, a mask or pesticide respirator jointly approved by Mine Safety and Health Institute for Occupational Safety and Health. Avoid contact with skin. Use with adequate ventilation. Do not take food or drink after handling.

Do not discharge effluent containing this product into lakes, streams, rivers, or other bodies of water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has approved. Do not discharge effluent containing this product to sewer systems without an approved treatment plant authority. For guidance contact your local health department. Do not contaminate water by cleaning of equipment unless specified on this label.

**STORAGE AND DISPOSAL
PROHIBITIONS**

This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Do not contaminate with strong oxidizing or reducing agents. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

METAL CONTAINERS

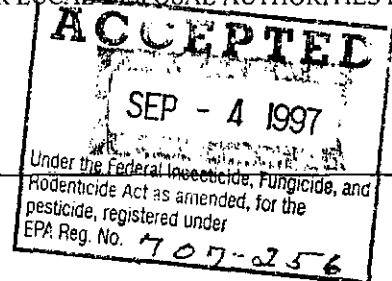
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PLASTIC CONTAINERS

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

Date of Manufacture: location for date
EPA Reg. No. 707-256
EPA Est. No. establishment number



Preservation
Kordek 50C is recommended for the control of bacteria and fungi in the manufacture of natural polymer latices including: acrylic; styrene butadiene; butadiene; ethylene/vinyl acetate; and biopolymers intended for industrial use, gum arabic, guar gum, protein-derived polymers, starches and casein-derived products. Add 0.5 pounds Kordek 50C (0.09 - 0.23 grams) to each 1000 pounds (453 kilograms) of fluid to provide 200 - 500 ppm product (100 - 250 ppm active isothiazolone).

Preservation
Kordek 50C is recommended as an in-container preservative for the control of bacteria and fungi on coatings such as paper and wood coatings and paints used for architectural and special purpose coatings. Add 0.15 - 0.30 pounds of Kordek 50C (0.07 - 0.14 kilograms) of fluid to provide 150 - 300 ppm product (75 - 150 ppm active isothiazolone).

Preservation
Kordek 50C is recommended as an in-container preservative for the control of bacteria and fungi on materials such as mastics, caulks, joint cements, spackling and grouting. Add 0.15 - 0.30 pounds of Kordek 50C (0.07 - 0.14 kilograms) to each 1000 pounds (453 kilograms) of fluid to provide 150 - 300 ppm product (75 - 150 ppm active ingredient).

Preservation
Kordek 50C is recommended for the control of bacteria and fungi in the manufacture of pigments such as kaolin and montmorillite clays, titanium dioxide, aluminum sulfate, barium sulfate, and magnesium silicate used in paint and paper. Add 0.3 pounds of Kordek 50C (22.7 - 136.2 grams) to each 1000 pounds (453 kilograms) of fluid to provide 50 - 300 ppm product (25 - 150 ppm active ingredient).

Adhesive and Tackifier Preservation
Kordek 50C microbicide is recommended as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives such as animal glues, natural rubber latices, polyvinyl acetate, styrene/butadiene and acrylic latices. Kordek 50C is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.15 - 0.30 pounds of Kordek 50C (0.07 - 0.14 kilograms) to each 1000 pounds (453 kilograms) of fluid to provide 150 - 300 ppm product (75 - 150 ppm active isothiazolone).

Fuel Preservation
Kordek 50C microbicide is recommended for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: crude oils, aviation fluids, kerosene, heating oils, residual fuel oils, coal slurries, liquefied petroleum gases, petrochemical feedstocks and diesel fuels for off-road vehicles only. Kathon FP 1.5 may not be added to any diesel fuel intended for use in any self-propelled motor vehicle designed for transporting persons or property on a street or highway.

METHOD OF ADDITION: Kordek 50C microbicide should be directly dispensed into a fuel tank, storage tank or flowing stream of fuel in a manner to ensure uniform distribution of the preservative in the fuel system. Slug dose or continuous feed methods are recommended.

CURATIVE DOSE: When the system is noticeably fouled, add 0.23 - 0.5 gallons of Kordek 50C per 10,000 gallons of fluid in the system. This will provide 30 - 60 ppm of Kordek 50C and 15 - 30 ppm active ingredient. Repeat until control is achieved.

MAINTENANCE DOSE: When the system is not noticeably fouled, add 0.13 - 0.36 gallons of Kordek 50C microbicide per 10,000 gallons of fluid to maintain the system. This will provide 16 - 44 ppm of Kordek 50C and 8 - 22 ppm active ingredient. Repeat every 4-5 weeks or when microbial contamination is detected.

FOR USE IN AVIATION FUEL, THE FEDERAL AVIATION ADMINISTRATION MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFT.