

2013-5492  
2013-12-03

## CONTROLCHEM 2618 MICROBICIDE

INDUSTRIAL  
SOLUTION

READ THE LABEL BEFORE USING

GUARANTEE:  
Glutaraldehyde ..... 8 %

REGISTRATION NO. 28956  
PEST CONTROL PRODUCT ACT  
NET CONTENTS : 20 KG

DANGER

POISON

CORROSIVE

ControlChem Canada Ltd.  
4460 Harvester Road  
Burlington, Ontario L7L 4X2  
Canada  
Phone: (905)319-2234

A microbicide for controlling slime-forming bacteria, sulfate-reducing bacteria, fungi, yeast and algae in air washers and recirculating cooling water systems; service water and auxiliary systems; heat transfer systems; industrial wastewater systems; aqueous metalworking fluids; paper mills and paper mill process water systems; water based coatings, pigments and filler slurries for paper and paperboard; oil well drilling, oil field processing applications, gas production and transmission systems; and general preservation of aqueous based industrial, institutional and consumer in-can processes and products

### **DIRECTIONS FOR USE**

DO NOT open pour more than 20 L of concentrate per day. Use an automatic addition

system if using more than 20 L of concentrate per day.

#### GENERAL PRESERVATIVE USE

ControlChem 2618 Microbicide is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in -can processes and products, to control the growth of bacteria and fungi. For effective preservation, add

ControlChem 2618 Microbicide to the product formulation at the rate of 0.125 to 1.25 % (1250 to 12500 ppm) based on the water content of the product [1.25L to 12.5L of ControlChem 2618 Microbicide per 1000 litres water content]. Mix thoroughly. For paint preservation use a maximum of 100 ppm ControlChem 2618 Microbicide.

### **AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS**

This product may be used only in industrial air washer systems which have mist eliminating components. ControlChem 2618 Microbicide should be added at the application rates described below, to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with ControlChem 2618 Microbicide. Under these conditions, blowdown should be discontinued for up to 24 hours.

ControlChem 2618 Microbicide can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

### **INTERMITTENT (SLUG DOSE) METHOD**

Initial Dose: When the system is noticeably fouled, add 625 to 2500 ml (625 to 2500 ppm) of ControlChem 2618 Microbicide per 1,000 liters of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 187 to 625 ml (187 to 625 ppm) of ControlChem 2618 Microbicide per 1,000 liters of water in the system weekly, or as needed to maintain control. Badly -fouled systems must be cleaned before treatment begins.

### **CONTINUOUS FEED SYSTEM**

Initial Dose: When the system is noticeably fouled, apply 625 -2500 ml (625-2500 ppm) of ControlChem 2618 Microbicide per 1,000 liters of water in the system.

Subsequent Dose: Maintain these treatments by starting a continuous feed of 94 -1875 ml (94-1875 pm) of ControlChem 2618 Microbicide per 1,000 liters of water in the system per day. Badly-fouled systems must be cleaned before treatment begins.

### **SERVICE WATER AND AUXILIARY SYSTEMS**

ControlChem 2618 Microbicide should be used in the same application rates, and in the same manner as for Air Washers and Recirculating Cooling Waters. It should be added to the system at a point that will allow for uniform mixing throughout the system.

## HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

ControlChem 2618 Microbicide should be used at the same application rates, and at the same manner as described in the Air Washers and Industrial scrubbing systems, above. It should be added to the system at a point of uniform mixing such as a basin area, sump

area or other reservoir collecting area from which the treated water will be circulated uniformly throughout the system.

### **INDUSTRIAL WASTEWATER SYSTEMS**

#### **(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)**

ControlChem 2618 Microbicide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 2.8L to 14.06L (2812 to 14060 ppm) of ControlChem 2618 Microbicide per 1000 liters of wastewater or sludge.

### **AQUEOUS METALWORKING FLUIDS**

ControlChem 2618 Microbicide should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be added intermittently (SLUG DOSE) at intervals of one week or less.

Initial dose: When the system is noticeably fouled apply 1125-3375 ml of ControlChem 2618 Microbicide per 1000 liters of metalworking fluid to the system. Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 437.5-2250 ml of ControlChem 2618 Microbicide per 1000 liters of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

Compatibility of ControlChem 2618 Microbicide with a sterile sample of metalworking fluid should be checked for background demand.

### **PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS:**

ControlChem 2618 Microbicide should be added to paper making systems at a point of uniform mixing, such as the head box, beaters, broke chest pump, save-all tank, or white water tank.

Initial Treatment: When the water is noticeably contaminated, add 1.56 to 9.3 kg per metric tonne of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems should be cleaned out prior to initial treatment.

Subsequent Dose: When microbial control is evident add 0.94- 6.25 kg per metric tonne to pulp or paper (dry basis) as a slug dose as necessary to maintain control.

### **WATER BASED COATINGS, PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD**

Add sufficient quantities of ControlChem 2618 Microbicide to produce a concentration

of 630-3750 ppm by weight of the formulation slurry (0.63-3.75 kg of product per metric tonne of slurry).

OIL WELL DRILLING, OIL FIELD PROCESS APPLICATIONS, GAS  
PRODUCTION AND TRANSMISSION SYSTEMS  
WATER FLOODS

ControlChem 2618 Microbicide should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeably contaminated, add 625 – 31250 ppm ControlChem 2618 Microbicide. Repeat until control is achieved

Subsequent Dose: When microbial control is evident, add 125 – 31250 ppm ControlChem 2618 Microbicide to the system weekly or as needed to maintain control.

### **DRILLING MUDS/DRILLING COMPLETION, WORKOVER FLUIDS**

ControlChem 2618 Microbicide should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 312.5 – 6250 ppm ControlChem 2618 Microbicide (5 Liters to 94.38 Liters ControlChem 2618 Microbicide per 100 barrels of fluids) to a freshly prepared drilling fluid, depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 312.5 – 6250 ppm ControlChem 2618 Microbicide by adding 5 Liters to 94.38 Liters ControlChem 2618 Microbicide per 100 barrels of fluid, as needed, depending on the severity of contamination.

### **PACKER FLUIDS**

ControlChem 2618 Microbicide should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 312.5 -3750 ppm (5 to 59.37 litres per 100 barrels of fluid) of ControlChem 2618 Microbicide to a freshly prepared fluid, depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

### **GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**

ControlChem 2618 Microbicide should be added to a gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of ControlChem 2618 Microbicide through the entire internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline.

Criteria for success of the treatment will be reduction in bacterial count and/or corrosion rates. To facilitate application it may be desirable to dilute the ControlChem 2618 Microbicide with the appropriate solvent immediately before use. The concentration in the solvent should not fall below the 3125 to 31250 ppm range. Injections to the system should be made on a weekly basis, or as needed to maintain control.

### **GAS STORAGE WELLS AND SYSTEMS**

Individual injection wells should be treated with sufficient quantity of ControlChem 2618 Microbicide to produce a concentration of 3125 to 31250 ppm ControlChem 2618

Microbicide when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of ControlChem 2618

Microbicide to produce a concentration of 1250 to 12500 ppm ControlChem 2618

Microbicide when diluted by the water present in the drip. Injections should be repeated early, or as needed to maintain control.



## **HYDROTESTING**

Water used to hydrotest pipelines or vessels should contain 625 to 25000 ppm (0.625 to 25 litres per 1000 litres water) of ControlChem 2618 Microbicide, depending on water quality and length of time the equipment will remain idle.

## **PIPELINE PIGGING AND SCRAPING OPERATION**

Add ControlChem 2618 Microbicide to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and trailing pig). Sufficient ControlChem 2618 Microbicide should be added to produce a concentration of 0.63 to 6.25 % (0.63 to 6.25 liters ControlChem 2618 Microbicide per 100 liters water), depending on the length of the pipeline and the severity of biofouling.

## **PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye and skin damage. Causes skin burns. Harmful or fatal if swallowed. Harmful if inhaled. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in some hyper-reactive individuals. Do not get in eyes, on skin or on clothing. Do not inhale fumes or vapours. Do not swallow. Wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, chemical-resistant footwear, goggles and face shield during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling. Use only in well ventilated area. Remove contaminated clothing and shoes and wash them before reuse.

## **FIRST AID**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15 -20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 -20 minutes. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth -to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If swallowed: Call a poison control centre or doctor immediately for treatment advice.  
Do not induce vomiting unless told to do so by a poison control center or doctor.  
Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

## **TOXICOLOGICAL INFORMATION**

Corrosive. This product may produce a sensitization response or allergic reaction in some individuals. Treat symptomatically.

## **STORAGE**

ControlChem 2618 Microbicide solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic lined steel, stainless steel or reinforced epoxy equipment. This product freezes at approximately -6.5 °C (20.3°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage (up to 1 month) temperatures up to 38 °C (100°F) can be tolerated; however, the preferred maximum storage temperature is approximately 27 °C (80°F). Keep away from fire and open flames. A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON is suitable for gaskets and packing.

## **SPILLAGE**

Absorb onto sand, earth or inert mineral. Sweep up and remove the spillage to a lined container for subsequent correct disposal. Clean the area with detergent and water.

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## **ENVIRONMENTAL HAZARDS**

This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product.

## **DISPOSAL**

1. Triple-or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.

4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean –up of spills.

\*\*\*\*\*

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.