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PMRA Approved Label

SPECTRUM™ XD1878 Chlorine Stabilizer

FOR USE TO GENERATE AND STABILIZE A BACTERICIDE AND SLIMICIDE FOR TREATING WATER SYSTEMS IN PULP AND PAPER MILLS AND RECIRCULATING COOLING WATER SYSTEMS

INDUSTRIAL

SOLUTION

DANGER – EYE IRRITANT

KEEP OUT OF REACH OF CHILDREN
READ THE LABEL BEFORE USE

GUARANTEE:

Ammonia, present as ammonium carbamate.....4.46%

REGISTRATION NO. 32630 PEST CONTROL PRODUCTS ACT

NET CONTENTS: Litres

Solenis ULC
1151 Green Valley Rd
London, On N6n 1e4
1-905-632-7861
Emergency Tel.: 1-844-SOLENIS (1-844-765-3647)

FOR INDUSTRIAL USE ONLY: Technical advice regarding specific site problems is available from Solenis Canada ULC.

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PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

Severely irritating to the eyes. DO NOT get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing vapour. Use with adequate ventilation. Wear protective eyewear (goggles or face shield and safety glasses), coveralls or long pants and long sleeved shirt, chemical resistant gloves, socks and chemical resistant footwear during loading, cleanup and repair activities. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

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 centre or doctor for treatment advice.

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

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told by a poison control centre or doctor. 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: Treat symptomatically.

ENVIRONMENTAL HAZARDS: This product and the biocide produced by the chemical feed system are TOXIC to aquatic organisms.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in a cool, dry, well-ventilated area, in well-closed original containers, away from energy sources, acids, alkaline, and heavy metal salts. To prevent contamination store this product away from food or feed.

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 cleanup of spills.

DIRECTIONS FOR USE:

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DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT discharge effluent containing the biocide produced into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters unless the effluent has been detoxified by suitable means.

Use SPECTRUM XD1878 for the control of bacteria, fungi, and associated slimes in the process water and additive systems such as pigment slurries, alum, ash, emulsions, adhesives, starch, defoamers, polymers, used in the production of paper and paperboard as well as for treating recirculating cooling water systems. SPECTRUM XD1878 must be used in conjunction with: 1) Sodium Hypochlorite (12.5%) to produce chloramine and 2) the SPECTRUM XD1878 feeder/delivery system, which is programmed to automatically and optimally produce a dilute solution of stabilized Chlorine (chloramines). The installation, calibration and operation of the SPECTRUM XD1878 feeding system must be conducted only by Solenis Canada ULC authorized and trained personnel.

Once generated, add stabilized Chlorine (chloramines) to the process waters for which treatment is required. Stabilized Chlorine (chloramines) may be added to any point that ensures uniform mixing. Addition of stabilized Chlorine (chloramines) may be continuous or intermittent depending on the severity of the contamination when treatment starts, and on other system operation parameters.

Note: Do not use other feeding modes to mix SPECTRUM XD1878 and sodium hypochlorite or mix SPECTRUM XD1878 with other additives that may be strong oxidizers or that may significantly reduce the pH so as to avoid decomposition of stabilized Chlorine (chloramines). Full biofilm removal and prevention may take a period of several months when this product is applied to process water systems with established biofilms.

Pulp and Paper Mill Water Systems

Initial dose: When noticeably fouled, add sufficient stabilized Chlorine (chloramines) to achieve a measured concentration of 0.5 -10.0 ppm residual biocide, expressed as total chlorine. The dosage can be achieved by mixing 1 litre of Sodium Hypochlorite (12.5%) with 0.7 kg of SPECTRUM XD1878 in the SPECTRUM XD1878 feeder/deliver system.

Subsequent Dose: Once microbial control is evident, add sufficient Stabilized Chlorine (chloramines) to maintain the measured residual biocide concentration at 0.5 -10.0 ppm in process waters, expressed as total chlorine.

If chloramine is detected in the effluent, it must be neutralized to undetectable levels by the addition of sodium metabisulfite or other suitable means.

Recirculating Cooling Water Systems

Use SPECTRUM XD1878 for microbial control in industrial cooling towers, evaporative condensers, heat exchange water towers, and influent systems such as flow through filters and industrial water scrubbing systems.

Initial dose: When noticeably fouled, add sufficient stabilized Chlorine (chloramines) to achieve a measured concentration of 0.3-5.0 ppm residual biocide, expressed as total chlorine. The dosage can be achieved by mixing 1 litre of Sodium Hypochlorite (12.5%) with 0.7 kg of SPECTRUM XD1878 in the SPECTRUM XD 1878 delivery feeder system.

Subsequent dose: Once microbial control is evident, add sufficient stabilized Chlorine (chloramines) to maintain the measured residual biocide concentration at 0.3-5.0 ppm in process waters, expressed as total chlorine. Continue as in initial dose.

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When this product is used to treat recirculating cooling water systems, effluent detection of chloramine should be conducted at least once per shift. If chloramine is detected in the effluent, it must be neutralized to undetectable levels by the addition of sodium metabisulfite or other suitable means.

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.