SUPPLEMENTAL LABELING

OLIN
DRY CHLORINATING COMPOUND
OCITM-90-I
3" TABLETS

FOR INDUSTRIAL USE

ACCEPTED

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Fundamental Indication of the public registered under the public transfer of under the u

Active Ingredient:	Trichloro-s-Triazinetrione99%
Inert Ingredients	
Available Chlorine	89%
EPA Reg. No. 1258-1061	

Directions for use in Sewage Treatment Plants: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

1. Disinfection of Effluents

Problem

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The disinfection of sewage requires that disease producing organisms in raw or treated sewage be destroyed. Disinfection is necessary to protect receiving water which may subsequently be used for water supplies, bathing places, or shellfish production. The proper disinfection of sewage is recognized as necessary for the protection of public health and because of this, the problems involved in treating sewage effluents is acute for many smaller communities.

Treatment

Disinfection by chlorination or hypochlorination does not occur instantaneously. A suitable detention basin must be provided to expose the sewage effluent to the effects of OCITM-90-I for a sufficient period of time (usually a minimum of 15 minutes). Where mechanical stirring or other agitiation is not present, chlorination for disinfection should be introduced before primary or secondary sedimentation treatments, if these are used.

The amount of OCI-90-I solution required will vary, depending on the concentration and conditions of the final effluent. The sewage should be treated before it has reached a septic state. Experiments indicate that about 30% of the chlorine demand of raw sewage is attributable to settled solids; 40% to suspended and colloidal solids; and 30% to dissolved solids.

Whenever possible, disinfection should be controlled by laboratory checks.

Disinfection can be achieved when the chlorine residual (after 15-30 minutes contact time) is between 0.6 and 1.0 ppm. Experience with different types of treated sewage will generally establish a relationship between the residual chlorine content of the final effluent and the contact time necessary to insure the desired bacteriological results, after which the residual chlorine and time of contact may be made the controlling factors for operation. Occasional bacteriological checks should be practiced as a safeguard.

Hypochlorinators used to treat sewage in small communities should always be located near the influent of the detention basin. To conform with the requirements mentioned above, the feed rate must be adjusted to the higher dosages usually required for sewage practices. In cases where sewage is to be temporarily disinfected before being diluted in a body of water, the following conditions will usually provide satisfactory protection against pollution of receiving waters: (a) Raw sewage, 10-30 ppm available chlorine. (b) Primary treated sewage, 5-20 ppm available chlorine. (c) Sewage which has undergone primary and secondary treatment, or secondary alone, 2-5 ppm. Bacteriological tests should be made frequently as a safeguard. The available chlorine level in the discharged effluent should be between 0.6 and 1.0 ppm or in accordance with an NPDES permit. For guidance, contact the regional office of EPA.

2. Slime Control

Problem

Slime is a major cause of trouble in treatment plants and in the sewage system. When not controlled, slime may clog sewage conduits, restrict waterways, form unsightly growths, and even cause sludge bulking in the activated sludge process. Slime may also infest low rate trickling filters and cause ponding of the filters.

Treatment

When ponding of the filters is excessive, stoppage of the distributing filter can occur. The continual feeding of an $OCI^{TM}-90-I$ solution into the effluent at a point above the filter nozzles will clean the filter satisfactorily. Dosages will depend on the amount of exce-s slime accumulated on the nozzles and filter store. Extreme cases may require dosages as high as 10 ppm available chlorine.

Once the desired cleaning has been achieved, an intermittent application of OCI^{TM} -90-I solution to the dosing tanks, just ahead of the filter, is usually successful. The amount and frequency of the dosage needed to give satisfactory continuous operation of the trickling filters depends on the severity of the microbiological problem.

In activated sludge plants, "bulking sludge" can be caused by the presence of slime which interrupts proper settling. A solution of OCI-90-I introduced at some point on the return sludge line can be an effective control measure. Normal dosage rates are 2-8 ppm available chlorine.

3. B.O.D. Reduction

Problem

The Biochemical Oxygen Demand (B.O.D.) of sewage or industrial waste refers to... the amount of oxygen (in ppm) required during the stabilization of the decom- . posable organic matter by oxygen-consuming bacterial action. The discharge of high B.O.D. sewage effluents into streams of on created the problem of odor ... nuisances, unsightly appearance, and death to equatic life.

Treatment

The condition can usually be avoided by applying a solution of OCI-90-I to the effluent until a substantial residual is obtained. Application should be made at a point which will permit a 10-20 minute contact time prior to the discharge of the effluent into the stream. A disage which leaves a residual available chlorine of about 0.2 ppm after a contact time of at least 10 minutes, will afford a reduction of about 1/3 of the effluent's B.O.D. Where more permanent or great B.O.D. reduction is necessary, dosing to higher available chlorine residuals is recommended.

4. Coagulation and Sedimentation

Problem

A great deal of the finer divided suspended matter and most of the colloidal matter in sewage does not readily respond to plain sedimentation. The job of removing substantial portions of this kind of matter is usually accomplished either by chemical precipitation, by filtration, or by the use of both processes.

Treatment

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Research has proven that pre-hypochlorination will improve sedimentation and coagulation in sewage treatment operations.

KEEP OUT OF REACH OF CHILDREN

DANGER:

SEE PRINCIPAL LABEL FOR COMPLETE PRECAUTIONARY INFORMATION AND STORAGE AND HANDLING INSTRUCTIONS

All applicable directions, restrictions, and precautions on the EPA principle registered label are to be followed

> OLIN CHEMICALS Consumer Products 01in Corporation 120 Long Ridge Road Stamford, Connecticut 06904

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