	APPLICATION FOR APPROVAL TREATMENT ADDITIVES State Form 50000 (RI / G1Í) INDIANA DEPARTMENT OF ENVIRONMEN		Indiana Dept. of Environmental Manage Office of Water Quality - Permits Section 100 N. Senate Avenue, IGCN Rm 1255 Indianapolis, IN 46204-2251 Telephone: (317) 232-8603 or 1-800-451-6027 (Indiana Residen	n ts Only)			
NOTE: This form must be submitted to the IDEM, Office of Water Quality, Industrial NPDES Permits Section when applying for a new or renewal NPDES permit or permit modification. http://www.in.gov/idem/5157.htm#owq 				water			
•	S The information required by this form must be su additive submitted for review.	ibmitted for each					
		NTRODUCTION					
All dischargers are required to disclose information on the water treatment additives in use and to demonstrate that such additives will not be harmful to aquatic life.							
To assure that all discharges from treatment systems using water treatment chemicals meet Indiana Water Quality Standards, the following information must be submitted to the IDEM, Office of Water Quality, Industrial NPDES Permits Section when applying for a new or renewal NPDES permit or permit modification. During the preparation of the NPDES permit or modification, this information may be used to establish permit limitations which comply with all Indiana Water Quality Standards. Additionally, if a permittee changes water treatment additives during the term of their NPDES permit, the following information must be submitted to the Industrial NPDES Permits Section, and approval of the change must be received prior to use of the new product(s).							
The information required by this form must be submitted for each additive submitted for review. Some of this information may come from the Material Safety Data Sheet (MSDS) for the additive and should be included with this application. It should also be noted that biomonitoring of the effluent for the affected outfall(s) may be required. Please provide the following information for each additive.							
	PART A: C	GENERAL INFORMAT	TION				
1. Name of a	1. Name of authorized official (first, last):						
2. Name of f	2. Name of facility:						
3. Mailing address (number and street):							
City:		State:	ZIP code:				
➡ CONTACT							
4. Name of p	rimary contact person (first, last):						
5. V^ ^] hone	6. "E-mail address (optional):						
➡ FACILITY							
7. Facility address (number and street):							
City:		State:	ZIP code: County:				
8. V^ ^] hone	number: ()	9""9-mail address	(optional):				
10. NPDES Permit Number (if facility has an existing permit):							

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	PART B: ADDITIVE DETAILS				
11.	Name of water treatment additive:				
	New Previously Approved				
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12.	Chemical composition of the water treatment additive ¹ :				
13.	What is the feed or dosage rate in grams/24 hr. period. (This may be provided in fluid ounces):				
14.	If more than one Outfall is covered by this permit, which Outfall does the use of this water treatment additive affect?:				
15	Name any ingredient(s) that may be present and may cause toxicity at the proposed Outfall. If known, provide the discharge				
15.	concentration of the ingredients (mg/l):				
16	Provide the location where the additive is put into use ² :				
10.					
17.	Provide the duration of use for the additive (hours per day and days per year):				
	hours/daydays/year				
	PART C: ADDITIVE CONCENTRATION				
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18.	Concentration (mg/l) of the water treatment additive used in the treatment system:				
19.	The concentration (mg/I) of the water treatment additive used in the final discharge (<i>if known</i>):				
20.	Discharge concentration of the water treatment				
	additive (mg/l):				
21.	Please explain how the final discharge concentration stated for item #20 was arrived at ² :				
22.	Provide a description and method used to control the use of the water treatment additive. What are the procedures on how to maintain this concentration within the system ² ?:				
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¹ Proprietary information may be submitted separately by the manufacturer or distributor and will be kept confidential. ² If necessary, this information may be provided on supplementary attachments.

	PART D: SYSTEM & DISCHARGE DETAILS				
23.	Provide the hardness of the discharge water:				
24.	The temperature of the treatment system using the water treatment additive (specify °F or °C):	□°F	⊃°□		
25.	The Blowdown Rate (<i>MGD</i>) from the treatment system using the water treatment additive:				
26.	The average flow <i>(MGD)</i> of all waste streams being discharged through the affected Outfall:				
27.	The pH of the treatment system using the water treatment additive:				
	PART E: CHEMICAL PROPERTIES/TOXICITY DATA				
For determining safe concentrations of the water treatment additives, the following information should also be submitted or addressed. Submit the supporting documentation (i.e., Material Safety Data Sheets) as attachments to this application.					
28.	Toxicity (LC ₅₀) of the additive ³ :				
	- 4				
29.	Test species ⁴ :				
30.	Please explain, or provide attachments to explain, the relation of toxicity topH:				
31.	Please explain, or provide attachments to explain the relationship of toxicity to water hardness:				

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³ As determined by 96-hour flow through bioassays for fish (preferably fathead minnow (*Pimephales promelas*) or bluegill (*Lepomis macrochirus*) for warmwater species or rainbow trout (*Salmo gairdneri*) for coldwater species) and a 48-hour static renewal for invertebrates (preferably of the genera Daphnia or Ceriodaphnia). Testing procedures to determine LC₅₀ values should follow U.S. EPA Guidelines. Static bioassays are acceptable only if the treatment chemical is persistent. The test temperature should be maintained at 20° Celsius (68° Fahrenheit) for coldwater species and at 30° Celsius (86° Fahrenheit) for warmwater species (higher test temperatures are chosen in order to simulate worst case conditions. Lower test temperatures may be used only if the thermal tolerance of the chosen representative aquatic species is below the recommended test temperatures).

⁴ The test species selected should be characteristic of the more sensitive representative aquatic species in the receiving stream.

PART E: CHEMICAL PROPERTIES/TOXICITY DATA 🥵 } @`^åD						
Product persistence in the environment and N Octanol-Water Partition Coefficient and Bioconcentration Factor (BCF) (if available).						
32. Provide the decay rate of the product, if known. This should system ⁵ . (Please provide copies of the sources of this data)	be stated at apH level within ½ pH standard unit within the handling as attachments to this application.):					
33. Provide any additional information or attach any additional of additive:	documentation to help in evaluating the use of this water treatment					
PART F	SIGNATURE					
This information will be reviewed and permission to use the water treatment additive may be granted either by letter, permit limitations, or permit modification, if the discharger has supplied the requested product information and toxicity data that will enable IDEM to establish permissible concentrations in each individual case. If the initial information is not sufficient to allow for the establishment of a safe concentration, additional information will be requested. Proprietary information regarding the chemical composition of any water treatment additive will be kept confidential in accordance with the terms of <u>327 IAC 12.1</u> . Claims of confidentiality must be made at the time of submittal; the information must be properly marked, segregated and secured at the time of submittal; and the person or company requesting confidentiality must provide justification as to why the information						
meets the criteria for it to be maintained as a trade secret, privileged information or confidential in accordance with <u>327 IAC 12.1</u> . This application should include the following and must be signed by a person in responsible charge to be valid. This signature attests to the following:						
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."						
(Printed Name)	(Title)					
(Signature)	(Date Signed) (mm/dd/yyyy)					

⁵ The half life is the time required for the initial product to degrade to half of its original concentration.