



Dedicated to protecting and improving the health and environment of the people of Colorado

COLORADO WATER QUALITY CONTROL DIVISION - REQUEST FOR CHEMICAL EVALUATION

Please print or type all information. All items must be filled out completely and correctly.

Mail original form with ink signatures to Colorado Dept. of Public Health and Environment Water Quality Control
Division 4300 Cherry Creek Dr. South WQCD-P-B2 Denver, CO 80246-1530

TEMPORARY COVID19 Submission - Digitally signed documents may be emailed to

[cdphe.wqrecordscenter@state.co.us.](mailto:cdphe.wqrecordscenter@state.co.us)

Do not follow up with a mailed-in hard copy. The directions for electronic signatures can be found at this [FAQ at question 41.](#)

PURPOSES OF FORM.

- The information required by this form will be used by the division to determine whether a permit modification is needed (and allowed consistent with Regulation 61.8(1) - PROHIBITIONS), when a permittee seeks to use different chemicals from those listed in its permit or fact sheet. If a permit modification is needed, these new chemicals may not be added prior to the effective date of the permit modification.
- A permittee may also directly apply for a permit modification without completing this form.
- When Would You Fill Out This Form?
 - To supplement a pending permit application (new or renewal) or modification application.
 - To comply with Regulation 61.8(5), 5 CCR 1002-61, or similar permit conditions, which require that a permittee notify the division of anything that will significantly change the nature or increase the quantity of pollutants discharged, or that may result in noncompliance with permit requirements.
 - To complete a site location or other Regulation 22 application process.

- If the division determines that a permit modification is necessary and if the permittee signs Part F below, this form may also serve as an application to modify the permit. If Part F is not signed and the division informs the permittee that a permit modification is necessary, the permittee must submit a permit modification application to the division in order to move forward with the chemical addition.

If the permittee does not submit the required permit modification within the specified timeframe, the division may deny the chemical evaluation request.

Until a permit modification is effective, the use of the chemical is not authorized by the permit.

- If the division determines that use of the chemical, as documented on this form, is not consistent with Regulation 61.8(1) - PROHIBITIONS, the division will deny the chemical evaluation request.
- **Proprietary components:** The permittee must submit all information required by this form, including for any proprietary components of the chemical product. Information for the proprietary components may be submitted to the division either by the permittee, or directly from the manufacturer. The division cannot review chemical evaluation requests without all required information for the chemical components, including any proprietary components.
- **Confidentiality:** Consistent with 61.5(4) - PUBLIC ACCESS TO INFORMATION, any request that component(s) of a chemical product remain confidential must meet the Colorado Open Records Act (CORA) criteria at 24-72-204(3)(a)(IV).
- Note that chemical use can affect the overall toxicity of a discharge to aquatic life, which may be reflected in Whole Effluent Toxicity (WET) testing. Given this, using new chemicals can trigger new requirements for WET testing or more frequent WET testing.

PART A. IDENTIFICATION OF PERMIT - Please identify the permit number

PERMIT NUMBER _____

PART B. PERMITTEE INFORMATION (application must be signed by the legal contact* listed here)

Company Name _____

Mailing Address _____

City _____ State _____ Zipcode _____

Legal Contact Name* _____ Phone Number _____

Title _____ Email _____

PART C. FACILITY/PROJECT INFORMATION

Facility/Project Name _____

Location (address) _____

City _____ County _____

Local Contact Name _____ Phone Number _____

Title _____ Email _____

PART D. REQUIRED INFORMATION FOR CHEMICAL EVALUATION REQUEST:

***** This part must be complete (i.e., you must provide ALL required information) for the division to process the chemical evaluation request *****

For **EACH** chemical product requested, provide the following information - **use additional pages if necessary.**

1. Is an MSDS attached for **EACH** chemical product requested? Yes No
2. List name of each chemical product requested, the waste stream, the associated outfall for the discharge containing the chemical product, and operating dosage.

Chemical product	Wastestream / outfall	Operating Dosage* (mg/l)
Chemical 1:		
Chemical 2:		

*Operating Dosage means the concentration of the chemical as maintained in the system (e.g., cooling tower, stripper, exchanger, concentration in a facility pond system).

3. List each **active component** as a percentage of the chemical product.

If the active component is not 100% of the chemical product, list all other components (e.g., non-active components, carriers, proprietary components, etc.) as a percentage of the mixture.

The sum of percentages must add up to 100% to demonstrate that all chemical components are identified.

Chemical 1:

Active component	Percent of mixture	Other component	Percent of mixture

4. Does the chemical product contain proprietary components? Yes No
5. Did permittee provide all required information for all proprietary components? Yes No NA
 (The division cannot review chemical evaluation requests without all required information for the chemical components, including any proprietary components.)
6. Provide the concentration of the chemical product, and each active or other component in the **effluent**, and the method used to derive the concentration.

Chemical 1:

Chemical product	Effluent Concentration** (mg/L)	Method used to determine effluent concentration***
Active component (and breakdown products)	Effluent Concentration** (mg/L)	Method used to determine effluent concentration***
Other component	Effluent concentration** (mg/L)	Method used to determine effluent concentration***

****Effluent concentration** means the concentration of the chemical in the final discharge after dilution, if any, with other water not containing the chemical.

For instance, if the concentration of the chemical is maintained at 10 mg/l in the cooling tower (**Operating Dosage**), the blowdown rate is 25 gallons per minute and the blowdown is mixed with 25 gallons per minute of other water not containing the chemical, the **Effluent concentration** is 5 mg/l. If there is no other dilution water, the **Operating Dosage** and **Effluent concentration** are the same.

*****Methods used to determine effluent concentration** may include: **calculated** based on dilution within facility; **measured** (bench scale test); **other** (describe). It is not acceptable to provide an effluent concentration (e.g., any concentration, non-detect, or zero) based on expected chemical reactions alone.

7. Provide the aquatic toxicity of the chemical **product**, as documented in the MSDS or other aquatic toxicity determination.

The aquatic toxicity provided above represents: active component only chemical product

Note: the division may request aquatic toxicity data for the **chemical product** if the MSDS only provides this data for one or more components of the product.

The division requires aquatic toxicity data for the chemical product (i.e., **acute or chronic** data for the **product** correlated to the type of WET testing in the permit, or the type of WET testing based on the IWC for the facility if there is not WET in the permit), for the **correct species**, and for the **correct duration and endpoint**, as follows:

Test type	Species	Duration	Endpoint
Acute	<i>Ceriodaphnia dubia</i>	48 hr.	LC ₅₀
	<i>Pimephales promelas</i> (fathead minnow)	96 hr.	LC ₅₀
Chronic	<i>Ceriodaphnia dubia</i>	7-day	IC25 and NOEC
	<i>Pimephales promelas</i> (fathead minnow)	7-day	IC25 and NOEC

If the necessary aquatic toxicity data is not provided on the chemical evaluation request form, the division will request it from the applicant; division review of the form cannot continue until this information is provided.

Two options are available to applicants if appropriate aquatic toxicity data (described above) is not provided on the MSDS:

- Conduct an aquatic toxicity test on the **chemical product**, in the same manner as a WET test is run on effluent (i.e., consistent with the WET policy and 40 CFR 136 methods); or,
- Conduct a bench scale toxicity test on an **effluent sample**, with the chemical product at the proposed operating dosage.

Note: It is the applicant’s responsibility, in coordination with the laboratory conducting the analysis, to provide aquatic toxicity test results that best represents the proposed chemical use at a facility. As such, bench scale testing is likely to provide data most representative of the effluent toxicity associated with chemical product use.

8. Did you evaluate using a less toxic chemical product for treatment? Yes No

Additional Information

The requested chemical addition may trigger certified operator requirements, pursuant to Section 100.5.2 of the Water and Wastewater Facility Operator Certification Requirements.

The requested chemical addition may result in additional limitations and/or monitoring requirements in the certification/permit (e.g., Whole Effluent Toxicity (WET), metals, organics, etc.)

PART E. CERTIFICATION Required Signature

“I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.”

Signature of Legally Responsible Party* **Date Signed**

Name (printed) Title

PART F. CERTIFICATION Signature for Permit Modification Application

If you desire this document to also be used as a permit modification application if the division determines that a permit modification is necessary, please also sign below. If this section is not signed, and a permit modification is deemed necessary by the division, the permittee must submit a permit modification application to the division if the permittee wishes to move forward with the chemical addition. Until a permit modification is effective, the use of the chemical is not authorized by the permit.

I understand that submittal of this application is for coverage under the State of Colorado Discharge Permit System until such time as the application is amended or the certification is transferred, inactivated, or expired.

Signature of Legally Responsible Party* **Date Signed**

Name (printed) Title

*This modification application shall be signed, dated, and certified for accuracy by the permittee. In all cases, it shall be signed as follows:

1. In the case of a corporation, by a principal executive officer of at least the level of vice-president, or his or her duly authorized representative, if such representative is responsible for the overall operation of the operation from which the discharge described herein originates;
2. In the case of a partnership, by a general partner;
3. In the case of a sole proprietorship, by the proprietor;
4. In the case of a municipal, state, or other public operation, by either a principal executive officer, ranking elected official, or other duly authorized employee.