

201-168

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U. S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PESTICIDES REGULATION DIVISION

REGISTRATION NO.  
201-168

DATE OF ISSUANCE  
March 28, 1966

NAME OF ECONOMIC POISON  
SHELL AQUALIN BIOCIDE

**NOTICE OF REGISTRATION UNDER THE FEDERAL  
INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT**

NAME AND ADDRESS OF REGISTRANT

Shell Chemical Company  
Division of Shell Oil Company  
Suite 1103  
1700 K. Street, N. W.,  
Washington, D. C. 20006  
Attention: Mr. Ralph F. Glasser

NOTE: Changes in labeling or formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Pesticides Regulation Division prior to use of the label in interstate commerce. In any correspondence on this product always refer to the above registration number.

On the basis of the information furnished by the registrant, the above named economic poison is hereby registered under Section 4 of the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this registration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Department. In order to protect the public, the Secretary, on his own motion, may at any time cancel the registration of an economic poison in accordance with Section 4 (c) of the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by a trademark held by others.

The following paragraphs are applicable only when checked:

- To expedite registration, this notice is being issued on the basis of the draft submitted with the application. Certain defects, given below, have been noted. These corrections must be incorporated when the printed labeling is prepared. Five copies of the printed labeling must be submitted to complete the file on this product.
- The registration for this product is being issued with the understanding that certain defects in the labeling which are noted below will be corrected as soon as possible. Objection is not raised to the use of the present labeling for a reasonable period of time while fully corrected labeling is being prepared. Five copies of the corrected labeling must be submitted.
- Please explain the meaning of the substatement to the formula: **"\*May contain 0.2% w hydroquinone (inhibitor)."** If there are two formulations for this product, we need some way to differentiate them. A code number might be a possible solution.

The Aqualin Biocide Handbook specifies control of the algae Chlorella but provides no data to support this claim. Please submit recent data to support the algae control claim.

While we do not question the adequacy of control for sulfate reducing bacteria and other species found in secondary oil recovery process systems, there is very little reliable data on the "cidal" activity of "Acrolein" insofar as bacteria are concerned in the literature. The data submitted does not furnish any definite conclusions as to killing capacity and rates as related to concentration whereby direct comparisons with such other aldehydes as formaldehyde and glutaraldehyde can be made. For this reason we are requesting information on the availability of laboratory size samples suitable for controlled cidal and static tests on various species of bacteria and fungi.

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Attachment is applicable.

SIGNATURE

*J. D. Woodward*

HEAD, REGISTRATION SECTION  
PESTICIDES REGULATION DIVISION

ACCEPTED

MAR 28 1966

UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR ECONOMIC POISON REGISTERED  
UNDER NO. 201-168 SUBJECT  
TO ATTACHED COMMENTS.

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SHELL AQUALIN® BIOCIDE  
(FLAMMABLE LIQUID, N.O.S.)

GENERAL DIRECTIONS

Shell

Aqualin® Biocide is a water soluble material for the ~~control~~ <sup>CONTROL</sup> of microorganisms in oil field water injection recovery systems. In accordance with directions in the Aqualin Biocide Process Handbook under the supervision of the trained personnel of licensed a

CAUTION: Acrolein, the active ingredient in Aqualin Biocide is highly reactive chemically and readily forms polymers. If alkalis (acidic and caustic) or strong acids are brought in contact with the Aqualin Biocide in a closed system, the Biocide can polymerize with rupture the container. Contamination of Aqualin Biocide with any foreign matter must be avoided. To avoid the possibility of pressurize the contents of this container with OXYGEN-FREE NITROGEN ONLY.

DANGER! KEEP AWAY FROM CHILDREN  
EXTREMELY FLAMMABLE AND  
IRRITATING VAPOR AND LIQUID.  
POISONOUS BY INHALATION, SKIN  
CONTACT OR SWALLOWING.



POISON  
(Red)  
18-Point Type



ANTIDOTE AND  
FIRST AID TREATMENT

Avoid breathing vapor.

Do not get in eyes, on skin, or on clothing.

If spilled on clothing, gloves or shoes, remove them immediately and wash thoroughly before re-use.

Keep away from fire, sparks, and heated surfaces.

Keep container closed.

Do not store partially filled containers for prolonged periods (2 to 3 months) as polymerization may occur. Dilute only with water. Do not apply with equipment used for acids and alkalis. Always use clean containers. Do not allow washings from empty drums and application equipment to be discharged into streams inadvertently.

NOTE: Nitrogen is slightly soluble in Aqualin Biocide. Therefore, when pressuring Aqualin Biocide into a pressure system, makeup Nitrogen must be continuously supplied. Do not leave container hooked up to pressure systems unless sufficient Nitrogen at pressure higher than pressure system is available.

CALL A PHYSICIAN IMMEDIATELY IN ALL CASES OF

INTERNAL: If the material has been swallowed, induce vomiting. This may be done by introducing a finger into the mouth. Give salt water (1 tablespoon of salt to a glass of water) until fluid is clear.

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Keep patient prone and quiet. If inhaled, get victim into fresh air immediately and give respiration if breathing has stopped.

EXTERNAL: If spilled on the skin, remove all contaminated clothing with soap and running water. If the material is on the face, immediately with running water for at least 15 minutes. Seek medical attention.

NOTE TO PHYSICIANS

WARNING SIGNS AND SYMPTOMS: Liquid Aqualin Biocide is particularly irritating to any lesion and to the mucous membrane of the eyes and to the respiratory tract. In case of the extreme lacrymatory warning effect, the concentration is far below the minimum lethal concentration.

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TREATMENT: Treat exposed area as a chemical burn. Thoroughly flush the eyes with water and treat symptomatically. Persons exposed to Aqualin Biocide vapors may have a delayed reaction and experience irritation of the respiratory tract. In severe cases, this may progress to pulmonary edema. Therefore, it is advisable to keep persons exposed to Aqualin Biocide under observation for 24 hours following exposure.

NOTICE OF WARRANTY

Shell Chemical Company warrants (its liability being limited to the purchase price of the product named on this label) that this product consists of the ingredients specified but makes no other warranty or representation of any kind, expressed or implied, including any warranty or representation regarding the effect or result of this product's use whether or not the product is used in accordance with directions, and shall have no responsibility whatsoever for injury to persons or loss or damage to property, resulting from the handling, storage or use of this product. The user or buyer shall be deemed to have accepted these conditions, which may be varied only by agreement in writing, signed by duly authorized representatives of the above-named company. Shell Chemical Company is a Division of Shell Oil Company and as used herein means Shell Oil Company.

SHELL CHEMICAL COMPANY  
A DIVISION OF SHELL OIL COMPANY  
NEW YORK, N.Y.

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STORE IN COOL PLACE

ACTIVE INGREDIENT	
Acrolein	
INERT INGREDIENTS	
TOTAL	

BY WEIGHT	
92%	
8%	
100%	

USDA REG. NO.	_____
NET CONTENTS	_____

**Keep AWAY**  
From **FIRE**,  
HEAT and OPEN-flame  
LIGHTS

**CAUTION**

LEAKING Packages Must be Removed to a Safe Place

**DO NOT DROP**

This is to certify that the contents of this package are properly described by name and are packed and marked and are in proper condition for transportation according to the regulations prescribed by the Interstate Commerce Commission.

Shipper's name required  
Reason for shipments by  
EXPRESS

PRECAUTIONS IN USING

Wear face shields or goggles during handling. Use with adequate ventilation. Keep available at all times, a gas mask of a type approved by the Bureau of Mines for Organic vapor protection. Clean application equipment with large amount of water after using.

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