



POISON



FORMULA

C-20

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

Avoid breathing vapor. Wear face shield or goggles during handling. Use only with adequate ventilation. Keep gas mask available of the type approved by U.S. Bureau of Mines for organic vapor protection.

Do not get in eyes, on skin or on clothing. Keep away from fire, sparks, and heated surfaces. If spilled on skin, remove all contaminated clothing and wash skin with soap and running water. Remove soiled clothing to ventilated area.

ANTIDOTE - CALL PHYSICIAN IMMEDIATELY

FIRST AID IF TAKEN INTERNALLY: Never give anything by mouth to an unconscious person. Induce vomiting immediately by introducing finger into the throat or by giving warm salt water (one tablespoon of salt to a glass of water). Repeat until vomit fluid is clear. Keep patient lying down, warm and quiet.

FIRST AID IF INHALED: Get victim to fresh air immediately, and give artificial respiration if breathing has stopped.

NOTE TO PHYSICIANS

Betz Slimicide C-20 is absorbed by the skin and is particularly irritating to any lesion and to the eyes. The vapors act principally on the mucous membranes of the eyes and respiratory tract. Because of the extreme lachrymatory warning effect, the concentration tolerated by a conscious man is far below the minimum lethal concentration.

Treat exposed area as a chemical burn. Thoroughly flush the eyes with water and treat symptomatically. Persons exposed to Betz Slimicide C-20 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 Betz Slimicide C-20 under observation for 24 hours following exposure.

GENERAL DIRECTIONS— This product is a water soluble material which aids in the control of the growth of slime forming organisms in industrial water systems. Apply only in accordance with the detailed directions furnished by BETZ and under the supervision of trained personnel. **FOR INDUSTRIAL USE ONLY.**

PRECAUTIONS FOR STORAGE AND CLEANING— Do not store partially filled containers for prolonged periods (two or three months) as polymerization may occur. Dilute only with water. Do not apply with equipment used for acids and alkalies. Betz Slimicide C-20 in closed systems and in the presence of alkalies (such as aqua ammonia, caustic and others) and strong acids can react violently. Always use clean containers.

When cylinder is empty and flushed with nitrogen, shut off nitrogen supply and release pressure through the vent. Close the inlet and outlet valves, then disconnect the cylinder from the feed system. Replace the plugs in the cylinder connections.

Clean application equipment with large amounts of water after using. Do not allow washings from application equipment to be discharged inadvertently into streams.

STORE IN COOL PLACE

Contents:

FLAMMABLE LIQUID, NOS

Active Ingredients	By Weight
Acrolein	92%
Inert Ingredients	8%

*Inert ingredients include solubilizing and dispersive agents.

USDA Reg. No. 3876-35

NET WEIGHT AND VOLUME

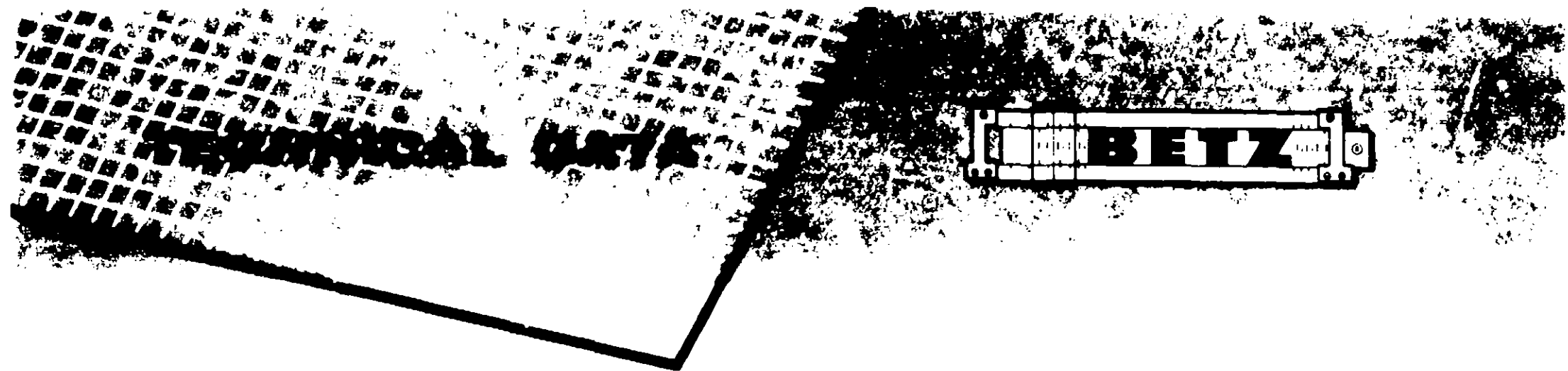
As Marked on Container

BETZ LABORATORIES, INC.

Philadelphia, Pa.

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BETZ SLIMICIDE C-20

DESCRIPTION AND USE	Betz Slimicide C-20 is a stabilized acrolein that is highly effective for controlling growths of microbiological origin in water systems, and for controlling troublesome mollusk growths. The product is an economical replacement for chlorine in waters of high chlorine demand. Betz Slimicide C-20 is applicable in fresh water and sea water cooling systems, sewage plant effluents and many types of processing systems.
GENERAL SPECIFICATIONS	<p>Composition Acrolein minimum 92% Stabilizer and vehicle 8%</p> <p>Appearance clear, colorless to yellowish, liquid Odor irritating and pungent, detectable at 0.5 ppm in atmosphere Density 7.0 lbs./gallon Vapor Pressure 4.156 psi (68 F) Solubility 20.8% by weight at 68 F in water soluble in alcohol, ether and acetone</p> <p>Flash Point below 0 F (open cup tag) Ignition Temperature 532 F (autogenous) Explosive Limits lower limit 2.8%, upper limit 31% (by volume in air) Chemical active ingredient, Acrolein, is an unsaturated aldehyde, molecular weight 56.06 ($\text{CH}_2=\text{CHCHO}$)</p>
TREATMENT REQUIREMENTS	Betz Slimicide C-20 can be fed either continuously or intermittently. The normal feed rate is 0.2 - 1.0 ppm, but other treatment levels may be recommended under special circumstances.
FEEDING AND HANDLING	Betz Slimicide C-20 is a volatile liquid which is toxic and a strong irritant, and should be fed with the use of the Betz Pressure Feed System. This system is specially designed for safe handling of the product. High purity nitrogen is used for pressurizing the liquid Betz C-20 into a water line for predilution of the product. The Slimicide C-20 residual in the plant effluent can be deactivated by chemical addition or dilution.
PACKAGING AND SHIPPING	Betz Slimicide C-20 is supplied in pressure type cylinders (ICC Type 1BA240). Approximate net weight - 370 pounds per cylinder. Cylinders have been specially adapted for use with the Betz Pressure Feed System.



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Avoid breathing vapor. Wear face shield or goggles during handling. Use gas mask available of the type approved by U.S. Bureau of Mines. Do not get in eyes, on skin or on clothing. Keep away from fire, heat, sparks, open flames, and other sources of ignition. Remove all contaminated clothing and wash skin with soap and water in a well-ventilated area.

ANTIDOTE - CALL PHYSICIAN

FIRST AID IF TAKEN INTERNALLY: Never give anything by mouth to someone who is unconscious or vomiting. If vomiting occurs, induce vomiting immediately by introducing finger into the throat or by giving 1-2 teaspoons of salt water (1/2 teaspoon salt to a glass of water). Repeat until vomit fluid is clear. Keep patient warm and comfortable. Call physician immediately.

FIRST AID IF INHALED: Get victim to fresh air immediately. If breathing is stopped, artificial respiration should be given. Call physician immediately.

NOTE TO PHYSICIAN

Betz Slimicide C-20 is absorbed by the skin and is particularly irritating to the mucous membranes of the eyes. In severe cases, a lachrymatory warning effect, the concentration tolerated by a person is very low.

Treat exposed area as a chemical burn. Thoroughly flush the eyes with water. If irritation of the respiratory tract occurs, discontinue use of the product and seek medical attention. In severe cases, observe patient for 24 hours following exposure.

GENERAL DIRECTIONS— This product is a water-soluble liquid. Apply only in accordance with the detailed directions furnished on the label.

PRECAUTIONS FOR STORAGE AND CLEANUP— This product may cause irritation to the skin. Avoid contact with skin. Clean application equipment with large amounts of water after use. Do not apply with equipment (such as aqua ammonia, caustic and others) and strong acids can react with the product. When cylinder is empty and flushed with nitrogen, shut off nitrogen from the feed system. Replace the plugs in the cylinder connections. Clean application equipment with large amounts of water after use.

BETZ LABORATORIES

ACCEPTED

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND QUARENTINE ACT
FOR ECONOMIC INSECTICIDE ACT
REGISTERED UNDER NO.