

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....BIOTROL 20
PRODUCT USE:.....Pesticide (Do Not Relabel)
COMPANY:.....CH₂O, Incorporated
8820 Old Hwy. 99 SE, Tumwater, WA 98501
360-943-6063, 800-562-6184, (fax) 360-352-4813, www.ch2o.com
EMERGENCY PHONE:(800) 424-9300 (CHEMTREC)
SDS DATE:3/22/2017 **SHELF LIFE:** 2 Years

2 – HAZARDS IDENTIFICATION

GHS HEALTH CLASSIFICATIONS: Acute Toxicity Oral (4) Acute Toxicity Inhalation (3)
Skin Sensitizer (1A) Reproductive Toxicity (2) Serious Eye Damage (1)
GHS ENVIRONMENTAL CLASSIFICATIONS: None
GHS PHYSICAL CLASSIFICATIONS: None



GHS SIGNAL WORD: DANGER

GHS HAZARD STATEMENTS:

- H302: Harmful if swallowed
- H318: Causes serious eye damage
- H331: Toxic if inhaled
- H361: Suspected of damaging fertility or the unborn child
- H317: May cause an allergic skin reaction

GHS PRECAUTIONARY STATEMENTS:

PREVENTION:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE:

- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P302+352: IF ON SKIN: Wash with plenty of water.
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P308+313: If exposed: Call a POISON CENTER or doctor/physician.
- P310: Immediately call a POISON CENTER or doctor.
- P321: See first aid measures on the SDS.
- P330: Rinse mouth.

P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

STORAGE:

P403+233: Store in a well ventilated place, in a tightly closed container.

P405: Store locked up.

DISPOSAL:

P501: Dispose of contents/container in accordance with local, state, and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: None known

UNKNOWN TOXICITY STATEMENT: 0% of this mixture consists of ingredient(s) of unknown acute toxicity.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

TRADE SECRET STATEMENT: The specific chemical identity and/or the exact percentage of composition has been withheld as a trade secret.

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	OSHA-STEL	OSHA-TWA

4 – FIRST-AID MEASURES

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention if irritation persists. **SKIN:** Wash exposed areas thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If skin feels slippery, continue washing until slick feeling is gone. Contact a physician if irritation persists. **INGESTION:** Give large quantities of water. DO NOT induce vomiting. If vomiting occurs administer additional fluids. Contact a physician for further directions. Never give anything by mouth to an unconscious person. **INHALATION:** Remove individual to fresh air. If breathing is difficult, give oxygen. Contact a physician if irritation persists.

5 – FIRE-FIGHTING MEASURES

When responding to a fire involving this product, personal protection equipment must be worn that is appropriate to the chemicals involved in the fire, as well as respiratory protection. If it can be done safely and without risk, stop any release of chemical at the source. Move undamaged containers away from the vicinity of the fire if it can be done safely. Water spray may be used in cooling equipment and containers that have been exposed to heat and/or flame. Avoid spreading burning material with water used for cooling purposes.

FLASHPOINT: >200°F

EXTINGUISHING MEDIA: Water fog or spray, Foam, Dry Powder, Carbon Dioxide (CO2).

SPECIAL FIRE FIGHTING PROCEDURES: Harmful or toxic vapors are released. Do not allow run-off from firefighting to enter drains or water courses. Under fire conditions: will burn (following evaporation of water) hazardous decomposition products, Phosphorus trihydride (phosphine), Oxides of phosphorus, Sulfur oxides and Carbon oxides.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Only trained personnel equipped with proper protective gear should be permitted in the area. Stop spill at source. Reclaim material if possible for reuse. Containerize contaminated material for disposal. After all visible traces have been removed flush area thoroughly with water.

WASTE: Dispose of all waste in accordance with local, state and federal regulations. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination.

7 – HANDLING and STORAGE

HANDLING & STORAGE: This is an acidic product. Eye contact will cause severe irritation with possible burns. Prolonged or repeated skin contact will cause irritation with possible burns. Ingestion will cause damage to the stomach and other tissue contacted. Excessive inhalation of product dust/mist can cause irritation and/or burns to the respiratory system. Wear impervious gloves and safety glasses or goggles when handling product. If vapors are present at or above TLV respiratory protection must be worn. Wear additional protective clothing as necessary to minimize contact with product.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required, use an approved air-purifying respirator. When exposure guidelines may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Chemical safety glasses, impervious gloves and an apron.

9 – PHYSICAL / CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE; Color & Odor: .. Very light yellow to very light pink; Characteristic

SPECIFIC GRAVITY:..... 1.11

pH, 1%: 3.0-6.0

SOLUBILITY IN WATER:..... Complete in water.

VOLATILITY (wt. %, incl. H₂O): . Unknown

10 – STABILITY and REACTIVITY

STABILITY: Stable

HAZARDOUS DECOMP.: Oxides of phosphorus, Sulfur oxides, Hydrogen, Carbon monoxide, carbon dioxide, unburned hydrocarbons (smoke) and Phosphine.

INCOMPATIBILITY: Strong acids, strong bases, strong oxidizing agents and strong reducing agents.

HAZARDOUS REACTIONS: None known

11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL PROPERTIES: The toxicological properties of this chemical mixture as a whole have not been thoroughly investigated.

LISTED CARCINOGEN: This material does not contain any known or suspected carcinogens.

MEDICAL CONDITION AGGRAVATED: None known

12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: The environmental properties of this chemical mixture have not been thoroughly investigated.

NOTE: This chemical mixture and its use solutions are toxic to fish. Any discharge to the environment must be made only in accordance with an NPDES permit.

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of all waste product and wastes generated from this product in accordance with local, state, and federal regulations. Assume wastes are hazardous unless characterization demonstrates otherwise. Handle empty drums as if they contain chemical residual until they have been thoroughly decontaminated.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:NMFC ITEM 50093/2 LIQUID

HAZARD CLASS:0

15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SARA Title III Chemical Listings:

Acute: Yes

Chronic: Yes

Fire:..... No

Pressure: No

Reactive: No

SARA SECTION 313: This product DOES NOT contain toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR Part 372.

16 – OTHER INFORMATION

HMIS RATING:

HEALTH: 2, **FLAMMABILITY:** 0, **REACTIVITY:** 1, **PERSONAL PROTECTION:** C

ADDITIONAL INFORMATION: None known