

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....BIOTROL 20A
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: 11/19/2018 **SHELF LIFE:** 2 Years

2 – HAZARDS IDENTIFICATION

GHS HEALTH CLASSIFICATIONS: Acute Toxicity Oral (3) Acute Toxicity Inhalation (3)
GHS ENVIRONMENTAL CLASSIFICATIONS: None
GHS PHYSICAL CLASSIFICATIONS: None



GHS SIGNAL WORD: WARNING

GHS HAZARD STATEMENTS:

H301+H331: Toxic if swallowed or if inhaled

GHS PRECAUTIONARY STATEMENTS:

PREVENTION:

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.

RESPONSE:

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P330: Rinse mouth.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311: Call a POISON CENTER or doctor.
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

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

First-aid measures general: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation: Remove the victim into fresh air. Immediately consult a doctor/medical service.

First-aid measures after skin contact: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

First-aid measures after ingestion: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Take the container/vomit to the doctor/hospital.

Ingestion of large quantities: immediately to hospital. Do not give chemical antidote.

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 spray. Polyvalent foam. ABC powder. Carbon Dioxide.

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: None

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: .. Colorless; Characteristic

SPECIFIC GRAVITY:..... 1.11

pH, 1%: 3.0 - 5.0

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

VOLATILITY (wt. %, incl. H₂O): . 80

10 – STABILITY and REACTIVITY

STABILITY: Stable

HAZARDOUS DECOMP.: fume. Carbon monoxide. Thermal decomposition generates: Corrosive vapors.

INCOMPATIBILITY: Strong acids. Strong bases.

HAZARDOUS REACTIONS: On burning: release of toxic and corrosive gases/vapors (phosphorus oxides, sulphur oxides, carbon monoxide - carbon dioxide).

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.

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: No

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.

EPA REGISTRATION NUMBER : 74712-4-43553

16 – OTHER INFORMATION

HMIS RATING:

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

ADDITIONAL INFORMATION: None known