

# SAFETY DATA SHEET

Date Issued : 02/01/2019

SDS No. : Bio-Dex Knock Out Yellow Algae

## Knock Out Yellow Algaecide

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Knock Out Yellow Algaecide

**GENERAL USE:** Algaecide for Swimming Pools

**DISTRIBUTOR**

Bio-Dex Laboratories, LLC.

4212 W. Innovative Drive

Phoenix, AZ 85086

**Product Stewardship:** 800-617-3477

**Web:** www.bio-dex.com

### 2. HAZARDS IDENTIFICATION

**GHS LABEL**

This product is not classified as hazardous according to the Globally Harmonized System (GHS)

**PRECAUTIONARY STATEMENT(S)**

**General:**

8219D4CW: This product is not classified as hazardous according to the Globally Harmonized System.

**POTENTIAL HEALTH EFFECTS**

**INGESTION:** May be harmful if swallowed.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Sodium Bromide	99	7647-15-6

### 4. FIRST AID MEASURES

**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. See a doctor immediately.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** Treat symptomatically. No specific antidote available. Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Not combustible.

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire.

**FIRE FIGHTING PROCEDURES:** Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Will decompose from 800 deg C releasing poisonous and corrosive fumes of hydrogen bromide and sodium oxide.

### 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Sweep up and place in bag. Hold for waste disposal or possible re-use. Ventilate area and wash spill site after

# SAFETY DATA SHEET

Date Issued : 02/01/2019  
SDS No. : Bio-Dex Knock Out Yellow Algae

## Knock Out Yellow Algaecide

material pickup is complete.

**RELEASE NOTES:** Prevent entry into sewers and watercourses.

**SPECIAL PROTECTIVE EQUIPMENT:** Use dust respirator, rubber gloves and chemical safety goggles.

**COMMENTS:** Avoid raising dust.

### 7. HANDLING AND STORAGE

**HANDLING:** Avoid bodily contact. Keep containers tightly closed.

**STORAGE:** Store in a cool, dry, well-ventilated area away from incompatible materials.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
Sodium Bromide	OSHA PEL	TWA	[1]	[1]
	ACGIH TLV	TWA	[1]	[1]
Footnotes: 1. Not established.				

**ENGINEERING CONTROLS:** Use with adequate ventilation.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical goggles.

**SKIN:** Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**RESPIRATORY:** In case of significant or accidental dust emissions, dust mask should be worn.

**PROTECTIVE CLOTHING:** Body covering clothes and boots.

**WORK HYGIENIC PRACTICES:** Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly before eating or smoking. Safety shower and eye bath should be provided.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid

**ODOR:** None.

**APPEARANCE:** White crystalline granules

**pH:** Not Available

**FLASHPOINT AND METHOD:** Not Flammable

**FLAMMABLE LIMITS:** Non-flammable.

**VAPOR PRESSURE:** 1 mm Hg @ 806 deg C

**VAPOR DENSITY:** N/A

**BOILING POINT:** 1390°C

**FREEZING POINT:** N/A

**MELTING POINT:** 755°C

**SOLUBILITY IN WATER:** 94.6 g / 100 ml @ 25 deg C

**SPECIFIC GRAVITY:** 3.203

# SAFETY DATA SHEET

Date Issued : 02/01/2019

SDS No. : Bio-Dex Knock Out Yellow Algae

## Knock Out Yellow Algaecide

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Reacts explosively with bromine trifluoride.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable under normal conditions. The powder tends to cake under normal storage conditions.

**CONDITIONS TO AVOID:** Heating above decomp temperature of 800 deg C.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Not expected to occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen bromide and sodium oxide. Bromine fumes.

**INCOMPATIBLE MATERIALS:** Strong acids, strong oxidants, heavy metal salts.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg - Rabbit

**ORAL LD<sub>50</sub>:** 4200 mg/kg - Rat

**GERM CELL MUTAGENICITY:** Does not induce DNA repair in cultured human epithelial cells. Not clastogenic in human lymphocytes metaphase analysis. Not mutagenic by the Ames test.

**REPRODUCTIVE TOXICITY:** Sodium bromide has been shown to cause embryo-fetal toxicity and malformations in rats at dose levels which also produce maternal toxicity. The No-Observed Effect Level (NOEL) is 100 mg/kg per day, and the acceptable daily intake (ADI) for sodium bromide from food and drinking water in humans is 1 mg/kg per day. Comparable high doses of sodium chloride (table salt) similarly cause malformation, embryo-fetal toxicity, and maternal toxicity in mice.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Sodium bromide is an inorganic salt, which fully dissociates in aquatic environment to bromide and sodium ions. It also undergoes degradation in soil to bromide ion (no further degradation or biodegradation will occur.)

**BIOACCUMULATION/ACCUMULATION:** This product is not expected to bioaccumulate.

#### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC<sub>50</sub>:** > 1000 mg/L (Rainbow Trout)

**48-HOUR EC<sub>50</sub>:** > 1000 mg/L (Daphnia Magna)

**GENERAL COMMENTS:** Avian Toxicity: Oral LD50 >2250 mg/kg (Bobwhite Quail)

Dietary LC50 >5633 ppm (Mallard Duck)

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose in accordance with all applicable regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**313 REPORTABLE INGREDIENTS:** No reportable chemicals.

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** Reported in EPA TSCA inventory.

**TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.

# SAFETY DATA SHEET

Date Issued : 02/01/2019

SDS No. : Bio-Dex Knock Out Yellow Algae

## Knock Out Yellow Algaecide

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Below you will find the hazard information that is required on the EPA pesticide label.

**GENERAL COMMENTS: HAZARD INFO FOUND ON THIS PRODUCT'S LABEL, EPA Reg. No 46043-27**

Harmful if swallowed, inhaled or absorbed through skin.

Toxic to fish and aquatic organisms.

**EPA FIFRA APPROVED LABEL SIGNAL WORD - WARNING**

### 16. OTHER INFORMATION

**Date Prepared:** 02/01/2019

**MANUFACTURER DISCLAIMER:** Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).