

# MATERIAL SAFETY DATA SHEET

## SECTION I: PRODUCT IDENTIFICATION

**MANUFACTURER:** SUPPLIER:  
**MULTI-BLEND LTD.**  
2720 SLOUGH ST.  
MISSISSAUGA, ONTARIO L4T 1G3  
**EMERGENCY - CANUTEC: 613-996-6666**

**Product Name** : **ALGAE X 10**  
**Product Use** : Microbiocide for use in Cooling Towers  
**Chemical Family** : Microbiocide **Chemical Formula** : Mixture  
**Synonyms** : None

## SECTION II: HAZARDOUS INGREDIENTS:

COMPONENT	C.A.S. NO.	%	TLV	LC50 mg / L	LD50 mg/kg
Poly[oxyethylene(di- methyliminio)ethylene (dimethyliminio) ethylene dichloride]	31075-24-8	5-10	Not Available	Inhalation (4 Hr) Rat 2.9	(Dermal) Rabbit >2000

## SECTION III: PHYSICAL DATA

**Physical State** : Liquid  
**Odour and Appearance** : Pale, brown liquid; mild sweet odour  
**Odour Threshold (ppm)** : Not available  
**Specific Gravity (water=1)** : 1.02  
**Vapour Pressure (mm)** : Not available  
**Vapour Density (air=1)** : Not available  
**Evaporation Rate (water=1)** : Not available  
**Solubility in Water** : Completely miscible  
**Boiling Point (°C)** : >100  
**Freezing Point (°C)** : Not available  
**% Volatile (by weight)** : >91 (as water)  
**pH (100% Solution)** : 6.0-8.0  
**Coefficient of Water/Oil Distribution**: Not available

## SECTION IV: FIRE AND EXPLOSIVE HAZARDS OF MATERIAL:

**Flammability**: None to boiling.  
**If Yes, Under What Conditions**: Not applicable  
**Means of Extinction**: Water fog, carbon dioxide, foam, dry chemical.  
**Special Procedures**: Wear self-contained breathing apparatus and protective equipment for all chemical fires.  
**Flash Point and Method**: None below 100°C (TCC)  
**Hazardous Combustion Products**: Non-flammable  
**Upper Explosive Limits**: Not applicable **Lower Explosive Limits**: Not applicable  
**Autoignition Temperature**: Not applicable  
**Explosive Data Sensitivity to Chemical Impact**: Not applicable  
**Rate of Burning**: Not applicable **Explosive Power**: Not applicable  
**Sensitivity to Static Discharge**: Not available

## SECTION V: HEALTH HAZARD DATA:

### EFFECTS OF ACUTE OVEREXPOSURE:

**Eyes**: Irritating to eyes. Produces reversible minimal effects in the form of erythema, chemosis and discharge.

**Skin**: Non-irritating.

**Inhalation**: Non-hazardous.

**Ingestion**: Effects are not well documented.

### EFFECTS OF CHRONIC OVEREXPOSURE:

Unknown

## SECTION VI: EMERGENCY AND FIRST AID:

**Eyes**: Flush with running water for at least 15 minutes. If irritation persists, get medical attention.

**Skin**: Remove contaminated clothing. Wash skin with soap and water. If irritation persists, seek medical attention. Launder clothing before re-use.

**Inhalation**: Remove person to fresh air. Keep at rest. Give oxygen if breathing is difficult. Get prompt medical attention.

**Ingestion**: Do not induce vomiting. Rinse mouth with copious amounts of water or milk. Then irrigate the esophagus and dilute stomach contents by slowly giving one to two glasses of water or milk. Do not give fluids to a person who is semi-comatose, comatose or convulsing. Call a physician immediately.

## SECTION VII: TOXICOLOGICAL DATA:

**Routes of Entry**: Skin, eyes, ingestion

**Exposure Limits**: Not available.

**LD50 of Material (Oral, Rat)**: No toxic effects noted in 90 day feeding study.

**LC50 of Material (Inhalation, Rat)**: Not available.

**Sensitization of Material**: None.

**Synergistic Materials**: Not available.

**Carcinogenic Effects**: Not listed in any of OSHA Standard, Section 1910.1200 sources as carcinogenic.

**Reproductive Effects**: None known.

**Teratogenic Effects**: None noted in studies on rats.

**Mutagenic Effects**: None known.

**Other Effects**: No toxic effects noted in 90 day feeding study in rats. No effects due to 21 day subacute dermal application.

## SECTION VIII: SPILL OR LEAK PROCEDURES:

### Steps To Be Taken In Case Material is Released Or Spilled:

**Large spills** -Contain spill. Prevent from entering fish bearing waters. Pump into suitable container for reclaim or disposal. Absorb remaining material onto solids absorbent and place in container for disposal. **Small spills** -Absorb onto solids absorbent and place in appropriate container for disposal. Do not flush into surface streams.

### Disposal Procedures:

Dispose of in accordance with all Federal, Provincial and Local regulations.

Containers can be offered for recycle or triple rinsed and disposed of in accordance with all applicable regulations.

For additional information on the disposal of unused, unwanted product and cleanup of spills, contact the Regional Office of Environment Canada.

## SECTION IX: PERSONAL PROTECTION INFORMATION:

**Engineering Controls** : Sufficient to maintain airborne concentrations below the recommended occupational exposure limits for mists or confined areas.

**Respiratory Protection** : Not normally required.

**Protective Clothing** : Chemical resistant gloves, shoes and clothing (long sleeved shirt).

**Eye Protection** : Safety glasses with side shields or safety goggles.

**Other Protective Equipment**: Eye wash and safety shower.

## SECTION X: REACTIVITY DATA:

**Chemical Stability**: Stable

**Hazardous Polymerization**: Will not occur.

**Incompatibility to Other Substances**: None known.

**Reactivity and Under What Conditions**: None known.

**Hazardous Decomposition Products**: None known.

## SECTION XI: HANDLING AND STORING PRECAUTIONS:

Exercise care and caution during handling. Avoid contact with eyes and skin.

Store in a cool, dry area where the risk of damage will be minimized.

## SECTION XII: ADDITIONAL INFORMATION:

TDG Classification: Not Regulated

Product is regulated by the Pest Control Products Act

**PREPARED BY: LAB GROUP** **DATE: August 1, 2008**

**TELEPHONE : 905-678-9559**

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