

MATERIAL SAFETY DATA SHEET

Green Dolphin Systems Corp.

MicroBest Microbial Waste Treatment

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MicroBest Microbial Waste Treatment
PRODUCT USE: Reduce/eliminate fats, greases, oils, petroleum hydrocarbons, and organic waste

MANUFACTURER: Green Dolphin Corp. (CAN)
MANUFACTURER:

ADDRESS: 26 Voyager Court South
Toronto, Ontario M9W 5M7
ADDRESS:

EMERGENCY : 613 966 6666
EMERGENCY #:

SECTION II: INFORMATION ON INGREDIENTS

| Ingredients | CAS# | Wt% | OSHA-PEL | ACGIH-TLV | LD ₅₀ |
|-----------------------------------|------|-----|----------|-----------|------------------|
| Contains no hazardous ingredients | | | | | |

SECTION III: HAZARDOUS IDENTIFICATION

Emergency Overview: This product is a clear blue liquid. It may cause slight irritation to the eyes and skin.

Route of Entry: Eye, skin contact, ingestion.

Potential Health Effects:

Eye Contact: Contact with liquid may cause slight irritation.

Skin Contact: Eye irritation in rabbits was reported as slight. Dermal LD50 >2g/kg, rabbits

Inhalation:

Ingestion: Causes nausea, vomiting, diarrhea, and gastrointestinal irritation. LD50 >5g/kg, rat

Chronic Effects: Although chronic studies using this product are not available, inhalation of this product should be prevented due to unknown long term effects.

Carcinogenicity: No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHIMIS/OSHA criteria.

Teratogenicity, Mutagenicity, Reproductive Effects: No data available.

SECTION IV: FIRST AID MEASURES

Eye Contact: Flush eyes with sterile water until irritation subsides or stops.

Skin Contact : Wash with soap and water.

Inhalation: Although not an acute hazard as tested in rats, chronic effects are unknown. Upon prolonged or repeated respiratory contact, see a physician.

Ingestion: Low order of toxicity. Upon ingestion, induce vomiting and contact a physician.

Note: Not for human and animal consumption

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SECTION V: FIRE FIGHTING MEASURES

Flammability: Non flammable
Flash Point deg (C,TCC) : Not Applicable

Means of Extinction: As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam
Special Fire Hazards: Not applicable
Autoignition temperature: Not applicable.
Flame propagation or burning rate of solid: Not applicable.
Sensitivity to static discharge: Not applicable
Unusual Fire and Explosion Hazards. Not applicable

Hazardous decomposition products: This product does not undergo spontaneous decomposition. Typical combustion products are carbon, carbon dioxide, nitrogen and water.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: No hazard. Wash away with plenty of water.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: Store in a cool, dry place.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Impervious protective gloves - rubber or nitrile. Always wash hands thoroughly after use.
Eye Protection: Use chemical goggles or full face shield.
Respiratory Protection: Not normally required if good ventilation is maintained.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation usually adequate.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

| | | | | | |
|-------------------------------|---------------------------|---|---------------|------------------------------------|---------|
| Boiling Point (deg C) | 100 | Specific Gravity (H₂O = 1): | 1.00 (25/25°) | Evaporation Rate (water=1): | similar |
| % Volatile (Wt%): | NA | Solubility in water: | Complete | pH (as supplied): | 5.0-7.0 |
| Physical State: | Liquid | Viscosity: | | | |
| Appearance / Odour: | Blue colour, earthy scent | | | | |

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable
Incompatible Materials: None known
Hazardous Decomposition Products: The product does not undergo spontaneous decomposition. Typical combustion products are carbon, carbon dioxide, nitrogen and water.

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SECTION XI: TOXICOLOGICAL INFORMATION

Acute Studies:

Rat oral LD50 is greater than 5g/kg of body weight; as evidenced by no observed mortality after rats were dosed with 5g/kg at a concentration of 500 mg Microbial Waste Treatment per ml of water and a dose volume of 10 ml/kg of body weight.

Rabbit dermal LD50 is greater than 2g/kg of body weight; as evidenced by no observed mortality after rabbits were exposed to test material applied to abraded and non-abraded occluded skin for 24 hours. No severe dermal effects were reported at the dose site.

Eye irritation in rabbits was reported as slight. Highest observed scores out of a possible score of 110 were: 1 hour:12; 24 hours:8; 48 hours:4; 72 hours:4; 4 days:2; 7 days:2; 10 days:2; 14 days:2

Rat inhalation of the test material at an average analytical exposure concentration of 1.2 mg/L of Microbial Waste Treatment (nominal concentration of 37 mg/L) for 6 hours produced no mortality.

SECTION XII: ECOLOGICAL INFORMATION

Environmental Fate: Contains naturally occurring bacteria

SECTION XIII: DISPOSAL CONSIDERATIONS

Use normal liquid waste methods in conformance with pertinent federal, state, and local regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated

D.O.T. Classification: Not regulated

IMDG Water Transportation: Not regulated

IATA Air Transportation: Not regulated

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:

WHMIS Class:

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372

None of these ingredients are listed.

Canadian Domestic Substance List (DSL):

Microorganism are not registered on the DSL

SECTION XVI: OTHER INFORMATION

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|--------------|-----------------|---------------------|--------------------------|-------------------|--------------|
| Date: | January 3, 2007 | Prepared By: | Technical Services Group | Telephone: | 416 679 0707 |
|--------------|-----------------|---------------------|--------------------------|-------------------|--------------|

Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).