# Safety Data Sheet: BIO-LAST COMPLETE, MM

**Supercedes Date** 12/07/2011 **Issuing Date** 12/20/2013

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** BIO-LAST COMPLETE, MM
**Recommended use** Cleaning agent
**Information on Manufacturer**
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

**Product Code** 4403
**Chemical nature** bacteria mixture
**Emergency Telephone Number**
CHEMTREC® 800-424-9300
**Telephone inquiry**
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Tan **Physical State** Solid **Odor** Mild Earthy

**GHS Classification**

*Physical Hazards*
None

*Health Hazard*
Serious Eye Damage/Eye Irritation Category 2B

*Other hazards*
None

**Labeling**

*Signal Word*
**WARNING**

*Hazard Statements*
H320 - Causes eye irritation

*Precautionary Statements*
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % |
|---|---|---|
| Sodium bicarbonate | 144-55-8 | 5-10 |
| Disodium phosphate, anhydrous | 7558-79-4 | 3-7 |
| Urea | 57-13-6 | 3-7 |
| Monosodium phosphate, anhydrous | 7558-80-7 | 1-5 |
| Sodium chloride | 7647-14-5 | 1-5 |
| Sodium thiosulfate pentahydrate | 10102-17-7 | 1-5 |
| Bacillus species | NOT APPLICABLE | 0.1-1 |
| Lipase, triacylglycerol | 9001-62-1 | <0.1 |

## 4. FIRST AID MEASURES

**General advice** Avoid contact with skin, eyes and clothing. Avoid breathing dust.
**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
**Skin Contact** Wipe up with absorbent material (e.g. cloth, fleece). Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.
**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms occur.
**Ingestion** Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if irritation develops and persists.
**Notes to physician** Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

**Flash Point** Does not flash **Method** Not applicable

**Flammability Limits in Air %** Dust explosion properties. **Upper** No data available **Lower** No data available

**Suitable Extinguishing Media**

Carbon dioxide (CO2). Dry chemical. Foam. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the chemical**

Dust can form an explosive mixture in air.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| | | | |
|---|---|---|---|
| **NFPA** | **Health** 1 | **Flammability** 1 | **Instability** 0 |
| **HMIS** | **Health** 1 | **Flammability** 1 | **Instability** 0 |

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.

**Environmental Precautions** No special environmental precautions required.

**Methods for Containment** Cover powder spill with plastic sheet or tarp to minimize spreading.

**Methods for Cleaning Up** Pick up and arrange disposal without creating dust.

**Neutralizing Agent** Not applicable.

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing. Avoid breathing dust.

**Storage** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Storage Temperature** **Minimum** 35 °F / 2 °C **Maximum** 100 °F / 38 °C

**Storage Conditions** **Indoor** X **Outdoor** **Heated** **Refrigerated**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Sodium bicarbonate | No data available | 5 mg/m$^3$ PNOR (as solid) | No data available |
| Disodium phosphate, anhydrous | No data available | 5 mg/m$^3$ PNOR (as solid) | No data available |
| Urea | No data available | No data available | No data available |
| Monosodium phosphate, anhydrous | No data available | 5 mg/m$^3$ PNOR (as solid) | No data available |
| Sodium chloride | No data available | 5 mg/m$^3$ PNOR (as solid) | No data available |
| Sodium thiosulfate pentahydrate | No data available | No data available | No data available |
| Bacillus species | No data available | No data available | No data available |
| Lipase, triacylglycerol | No data available | No data available | No data available |

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/Face Protection** Safety glasses with side-shields.

**Skin Protection** For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations** Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Physical State** | Solid | **Viscosity** | Granular |
| **Color** | Tan | **Odor** | Mild Earthy |
| **Odor Threshold** | Not applicable | **Appearance** | Opaque |
| **pH** | Not applicable | **Specific Gravity** | 0.49 |
| **Evaporation Rate** | 0 (Butyl acetate=1) | **Percent Volatile (Volume)** | 0 |
| **VOC Content (%)** | 0 | **VOC Content (g/L)** | 0 |
| **Vapor Pressure** | 0 mmHg @ 70°F | **Vapor Density** | 0 (Air = 1.0) |
| **Solubility** | Appreciable | **n-Octanol/Water Partition** | No data available |
| **Melting Point/Range** | No data available | **Decomposition Temperature** | No data available |
| **Boiling Point/Range** | Not applicable | **Flammability (solid, gas)** | No data available |
| **Flash Point** | Does not flash | **Method** | Not applicable |
| **Autoignition Temperature** | No information available. | | |
| **Flammability Limits in Air %** | Dust explosion properties. | **Upper** No data available **Lower** No data available | |

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable. Hazardous polymerization does not occur.
**Conditions to Avoid** None known
**Incompatible Products** Strong oxidizing agents, Strong acids, Strong bases.
**Hazardous Decomposition Products** Carbon oxides, Nitrogen oxides (NOx), Ammonia, Sulfur oxides, Sodium oxides.
**Possibility of Hazardous Reactions** None under normal processing

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):**
**Oral LD50** 6,237.16
**Dermal LD50** 9,541.63
**Inhalation LC50**
**Gas** No information available
**Mist** 12.55
**Vapor** 12.55

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.
**Primary Routes of Entry** Inhalation
**Acute Effects**
**Eyes** Causes eye irritation.
**Skin** May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
**Inhalation** May cause irritation of respiratory tract.
**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
**Chronic Toxicity** Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Lung edema. Cyanosis. Risk of infection of the lung after prolonged inhalation of dust particles.
**Target Organ Effects** Central nervous system, Lungs, Heart, Kidney.
**Aggravated Medical Conditions** Skin disorders, Respiratory disorders, Kidney disorders, Neurological disorders, Heart disease.

Component Information

**Acute Toxicity**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|---|---|---|---|---|---|
| Sodium bicarbonate | = 4220 mg/kg ( Rat ) | no data available | no data available | no data available | no data available |
| Disodium phosphate, anhydrous | no data available | no data available | no data available | no data available | no data available |
| Urea | 14,300-15,000 mg/kg (rat) | no data available | no data available | no data available | no data available |
| Monosodium phosphate, anhydrous | = 8290 mg/kg ( Rat ) | > 7940 mg/kg ( Rabbit ) | no data available | no data available | no data available |
| Sodium chloride | = 3 g/kg ( Rat ) | no data available | > 42 g/m$^3$ ( Rat ) 1 h | no data available | no data available |
| Sodium thiosulfate pentahydrate | no data available | no data available | no data available | no data available | no data available |
| Bacillus species | no data available | no data available | no data available | no data available | no data available |
| Lipase, triacylglycerol | no data available | no data available | no data available | no data available | no data available |

**Chronic Toxicity**

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|---|---|---|---|---|---|
| Sodium bicarbonate | no data available | no data available | no data available | no data available | no data available |
| Disodium phosphate, anhydrous | no data available | no data available | no data available | no data available | no data available |
| Urea | no data available | no data available | no data available | no data available | no data available |
| Monosodium phosphate, anhydrous | no data available | no data available | no data available | no data available | CNS, heart, kidney |
| Sodium chloride | no data available | no data available | no data available | no data available | kidney |
| Sodium thiosulfate pentahydrate | no data available | no data available | no data available | no data available | no data available |
| Bacillus species | no data available | no data available | no data available | no data available | no data available |
| Lipase, triacylglycerol | no data available | Respiratory sensitizer | no data available | no data available | Lungs |

**Carcinogenicity**

| Component | ACGIH | IARC | NTP | OSHA | Other |
|---|---|---|---|---|---|
| Sodium bicarbonate | not applicable | not applicable | not applicable | not applicable | not applicable |
| Disodium phosphate, anhydrous | not applicable | not applicable | not applicable | not applicable | not applicable |
| Urea | not applicable | not applicable | not applicable | not applicable | not applicable |
| Monosodium phosphate, anhydrous | not applicable | not applicable | not applicable | not applicable | not applicable |
| Sodium chloride | not applicable | not applicable | not applicable | not applicable | not applicable |
| Sodium thiosulfate | not applicable | not applicable | not applicable | not applicable | not applicable |

| | | | | | |
|---|---|---|---|---|---|
| pentahydrate | | | | | |
| Bacillus species | not applicable | not applicable | not applicable | not applicable | not applicable |
| Lipase, triacylglycerol | not applicable | not applicable | not applicable | not applicable | not applicable |

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Water Flea | log Pow |
|---|---|---|---|---|---|
| Sodium bicarbonate | EC50 = 650 mg/L Nitzschia linearis 120 h | LC50 8250 - 9000 mg/L Lepomis macrochirus 96 h | no data available | EC50= 2350 mg/L 48 h | N/A |
| Disodium phosphate, anhydrous | no data available | no data available | no data available | no data available | N/A |
| Urea | no data available | LC50 16200 - 18300 mg/L Poecilia reticulata 96 h | EC50 = 23914 mg/L 5 min | EC50> 10000 mg/L 24 h EC50= 3910 mg/L 48 h | -1.59 |
| Monosodium phosphate, anhydrous | no data available | no data available | no data available | no data available | N/A |
| Sodium chloride | no data available | LC50 5560 - 6080 mg/L Lepomis macrochirus 96 h LC50 = 12946 mg/L Lepomis macrochirus 96 h LC50 6020 - 7070 mg/L Pimephales promelas 96 h LC50 = 7050 mg/L Pimephales promelas 96 h LC50 6420 - 6700 mg/L Pimephales promelas 96 h LC50 4747 - 7824 mg/L Oncorhynchus mykiss 96 h | no data available | EC50= 1000 mg/L 48 h EC50 340.7 - 469.2 mg/L 48 h | N/A |
| Sodium thiosulfate pentahydrate | no data available | no data available | no data available | no data available | N/A |
| Bacillus species | no data available | no data available | no data available | no data available | N/A |
| Lipase, triacylglycerol | no data available | no data available | no data available | no data available | N/A |

**Persistence and Degradability** No information available.
**Bioaccumulation** No information available.
**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.
**Container Disposal** Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

**Inventories**
**TSCA** Does not Comply
**DSL** Does not Comply
**U.S. Federal Regulations**
**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
|---|---|---|---|---|
| Yes | Yes | No | No | No |

**CERCLA**

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|---|---|---|
| Sodium bicarbonate | Not applicable | Not applicable |
| Disodium phosphate, anhydrous | 5000 lb | Not applicable |
| Urea | Not applicable | Not applicable |
| Monosodium phosphate, anhydrous | Not applicable | Not applicable |
| Sodium chloride | Not applicable | Not applicable |
| Sodium thiosulfate pentahydrate | Not applicable | Not applicable |
| Bacillus species | Not applicable | Not applicable |
| Lipase, triacylglycerol | Not applicable | Not applicable |

## 16. OTHER INFORMATION

**Prepared By** Ana Santiago
**Supercedes Date** 12/07/2011
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**Reason for Revision** No information available.
**Glossary** No information available.
**List of References.** No information available.

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