



SAFETY DATA SHEET

BIO-GEM® GREASE ELIMINATING MICROBES

EMERGENCY TELEPHONE: (800) 424-9300

DATE PREPARED: JANUARY 2019

I. PRODUCT AND COMPANY IDENTIFICATION

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| PRODUCT NAME | Bio-Gem® |
| CHEMICAL NAME | Bacterial Additive |
| CHEMICAL ABSTRACT SERVICE NO. | Not Applicable |
| CHEMICAL FAMILY | Not Applicable |
| FORMULA | Compound Product |
| SUPPLIER | Norweco, Inc. 220 Republic St. Norwalk, OH USA 44857 |
| EMERGENCY TELEPHONE NUMBER | (800) 424-9300 |
| TECHNICAL PHONE NUMBER | (800) NORWECO, (800) 667-9326 |

II. HAZARDOUS IDENTIFICATION

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| EMERGENCY OVERVIEW | May cause allergic reactions in sensitive individuals. May cause irritation to eyes, skin and respiratory system on contact. Avoid prolonged contact. Ingestion may irritate gastrointestinal tract. Wash hands thoroughly after handling. Do not mix with other chemicals. Avoid all situations that could lead to harmful exposure. |
| POTENTIAL ACUTE HEALTH EFFECTS | |
| INHALATION | Inhalation of product or mist may cause respiratory tract irritation. |
| INGESTION | Ingestion may irritate gastrointestinal tract. |
| SKIN | Product may result in skin irritation upon prolonged contact. |
| EYES | Mist or solution may burn eyes on contact. |
| OVER EXPOSURE SIGNS/SYMPTOMS | |
| INHALATION | Adverse symptoms may include the following: respiratory tract irritation |
| INGESTION | Adverse symptoms may include the following: gastrointestinal tract irritation |
| SKIN | Adverse symptoms may include the following: irritation |
| EYES | Adverse symptoms may include the following: irritation |
| MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE | Not available |

III. CONSUMPTION/INFORMATION ON INGREDIENTS

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|---------------------------|--------------------------|
| HAZARDOUS INGREDIENTS | None |
| NON-HAZARDOUS INGREDIENTS | Proprietary mixture 100% |

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE THAT ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

IV. FIRST AID PROCEDURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

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| EYE CONTACT | Immediately flush with large amounts of water for fifteen (15) minutes, rinsing thoroughly. Get medical attention. |
| SKIN CONTACT | Wash with plenty of soap and water for fifteen (15) minutes. Remove contaminated clothing. If skin irritation occurs, get medical attention. Wash clothing before reuse. |
| INHALATION | Remove to fresh air. If not breathing, resuscitate and administer oxygen if readily available. Seek medical attention immediately. |
| INGESTION | Call physician immediately. Only induce vomiting if advised by physician. If unconscious, or in convulsions, seek medical attention immediately. Do not induce vomiting or give anything by mouth to an unconscious person. |
| NOTE TO PHYSICIAN | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested. |

V. FIRE-FIGHTING MEASURES

| | |
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| FLAMMABILITY OF THE PRODUCT | Not applicable |
| EXTINGUISHING MEDIA | |
| SUITABLE | Carbon dioxide, dry chemical and water |
| NOT SUITABLE | Not applicable |
| SPECIAL EXPOSURE HAZARDS | Not applicable |
| HAZARDOUS COMBUSTION PRODUCTS | Not applicable |
| SPECIAL FIREFIGHTING PROCEDURES | NIOSH/MSHA - Approved positive pressure, self-contained breathing apparatus with full face piece and protective clothing. |

VI. ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Wear appropriate personal protective equipment if required. |
| ENVIRONMENTAL PRECAUTIONS | Not Applicable |
| LARGE SPILL | Spills exceeding 100 gallons should be reported to the local authorities. |
| SMALL SPILL | Contain all spilled material, wearing appropriate protective equipment. Transfer spilled material in clean, dry containers for disposal. Do not flush to surface water. |
| REFERENCE TO OTHER SECTIONS | See Section I for emergency contact information. See Section VIII for information on appropriate personal protective equipment. See Section XIII for additional waste treatment information. |

VII. HANDLING AND STORAGE

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| HANDLING | Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Use caution in handling spilled material. Put on appropriate personal protective equipment (see Section VIII). Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep in the original container with the lid securely closed. |
| STORAGE | Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Protect from direct light and minimize contact with air. Protect from freezing. Keep away from oxidizers, acids and other chemicals. Do not reuse or refill empty containers. Offer to recycling if available or place in trash collection. Do not contaminate food or feed by storage or disposal of this product. |

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VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

RECOMMENDED MONITORING PROCEDURES
ENGINEERING MEASURES
HYGIENE MEASURES

Per OSHA no permissible exposure limits have been established.
Use adequate general or local exhaust ventilation to keep fume and/or dust level as low as possible.
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION

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|---------------------------------|---|
| EYES | Safety glasses |
| HANDS | Gloves should be worn |
| GLOVES | Rubber, neoprene or PVC |
| RESPIRATORY | If product mist is encountered, use NIOSH/MSHA approved respirator with acid gas cartridge and dust pre-filter. |
| SKIN | Boots, aprons or chemical suits as required to prevent skin contact. |
| ENVIRONMENTAL EXPOSURE CONTROLS | Not applicable |

IX. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|----------------|--------------------------------------|----------------|
| PHYSICAL STATE | Liquid | DENSITY (lbs/gal) | Not available |
| FLASH POINT | Not applicable | VAPOR PRESSURE | Equal to water |
| DECOMPOSITION TEMPERATURE | Not available | VAPOR DENSITY | Equal to water |
| MATERIAL SUPPORTS COMBUSTION | Not applicable | VOLATILITY | NIL |
| COLOR | Blue liquid | EVAPORATION RATE | Equal to water |
| ODOR | Herbal scent | VISCOSITY | Not applicable |
| pH | 7.0-7.8 | SOLUBILITY | 99% |
| BOILING/CONDENSATION POINT | > 100°C | WATER SOLUBILITY AT ROOM TEMPERATURE | Not available |
| MELTING/FREEZING POINT | 0°C | PARTITION COEFFICIENT NOCTANOL/WATER | Not available |
| SPECIFIC GRAVITY | 1.001 | % SOLID (W/W) | Not available |

X. STABILITY AND REACTIVITY

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|------------------------------------|----------------|
| STABILITY | Stable |
| CONDITIONS TO AVOID | Extreme heat |
| MATERIALS TO AVOID | Strong acids |
| HAZARDOUS DECOMPOSITION PRODUCTS | None |
| POSSIBILITY OF HAZARDOUS REACTIONS | Not applicable |

XI. TOXICOLOGICAL INFORMATION

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| PERMISSIBLE ACUTE | No permissible exposure limits have been established by OSHA. |
| INHALATION | Inhalation of product or mist may cause respiratory tract irritation. |
| EYE/SKIN | Prolonged contact may cause skin irritation. Eye contact may cause irritation. |
| INGESTION | Ingestion may irritate gastrointestinal tract. |
| CHRONIC | Not available |

XII. ECOLOGICAL INFORMATION

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|----------------------------|--------------------------|
| ECOLOGICAL TOXICITY VALUES | No information available |
| ENVIRONMENTAL EFFECTS | Not applicable |
| BIODEGRADABILITY | Not applicable |

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Not rated a hazardous substance by USEPA. Collected material can be dissolved in water, exercising caution. Material may be discharged into an appropriate waste collection system, but consult all local, state and federal regulating agencies prior to disposing of any material.

XIV. TRANSPORTATION INFORMATION

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| IDENTIFICATION NUMBER | Not applicable |
| PACKING GROUP | Not applicable |
| REPORTABLE QUANTITY | Not applicable |
| HMIS/NFPA RATING | Not applicable |

XV. REGULATORY INFORMATION

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|----------------------------|---------------|
| USEPA | Non-hazardous |
| U.S. DOT HAZARD CLASS | Non-hazardous |
| CERCLA HAZARDOUS SUBSTANCE | No |
| SARA TITLE III | Non-hazardous |

XVI. OTHER INFORMATION

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|---------------|-----------------|
| OTHER SPECIAL | Not applicable |
| DATE OF ISSUE | January 7, 2019 |