# HUM-BUG DETECTOR® KIT

**Effective 1/1/2005**

## *SECTION 1 PRODUCT IDENTIFICATION AND USE*

**PRODUCT IDENTIFIER:** HUM-Bug DETECTOR® Kit

**PRODUCT DESCRIPTION:** A water-insoluble naphthionic hydrocarbon mixture (white mineral oil, National Formulary Guide) above a solution of inorganic salts in water.

**PRODUCT USE:** Detection of micro-organism contamination in hydrocarbon fuels and oils.

**MANUFACTURER AND SUPPLIER:** **Hammonds Fuel Additives, Inc.**
**15760 West Hardy Road, Suite 400**
**Houston TX 77060-3147**

**TELEPHONE NUMBER:** (281)820-5674

**FAX NUMBER:** (281)847-5129

**CAS NUMBER:** Mixture

**PIN NUMBER:** Not applicable

## *SECTION II - HAZARDOUS INGREDIENTS*

**Hazardous Ingredients:** None. (Components are less than limits specified in sections 13 (a) and 14 (a) of the Hazardous Products Act).

**WHMIS Classification:** Not a controlled product under WHMIS legislation.

**Transportation of Dangerous Goods (TDG) Classification:** Not Applicable

## *SECTION III - PHYSICAL AND CHEMICAL PROPERTIES*

**Physical State:** Two layer liquid

**Appearance/Odor:** Two colorless immiscible liquids with slight hydrocarbon odor.

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|---|---|---|---|
| **Odor Threshold:** | Not available | **Evaporation Rate:** | Not available |
| **Vapor Pressure:** | Not available | **Vapor Density:** | Not available |
| **Specific Gravity:** | Not available | **Coeff. Water/Oil Dist.:** | Not available |

| **Hydrocarbon Mixture** | | **Aqueous Phase** | |
|---|---|---|---|
| Boiling Point: | 230º C | pH: | 6.8-7.0 |
| Density: | 0.84 g/cc at 15º C | Solubility: | 100% in water |
| Freezing/Melting Point: | -9º C | | |
| Viscosity: | 12.30 cSt at 40º C | | |
| Solubility: | Insoluble in water | | |

## *SECTION IV - FIRE AND EXPLOSION HAZARD*

**Flammability:** Not flammable; can burn if aqueous salt solution is removed and hydrocarbon mixture is heated to temperatures at or above the flash point.

**Firefighting:** Use dry chemical, foam or water spray to extinguish fire. Cool fire-exposed containers with water spray.

**Flash Point and Method:** 120º C, COC ASTM D92 (hydrocarbon mixture only)

**Hazardous Combustion Products:** Smoke, carbon monoxide, carbon dioxide.

**Upper and Lower Flammable Limits:** Not Applicable

**Explosion Data:** Sensitivity to Impact: Not sensitive to mechanical impact.

**Sensitivity to static discharge:** Not Applicable

**Autoignition Temperature:** Not Available

## *SECTION V - REACTIVITY DATA*

**Stability:** Stable product

**Incompatible Materials and Conditions to Avoid:** Strong Oxidizers

**Reactivity and Conditions:** Addition of strong oxidizers generates heat which may ignite the mineral oil.

**Hazardous Decomposition Products:** Smoke, carbon monoxide

## *SECTION VI - TOXICOLOGICAL PROPERTIES*

**Route of Entry:** Inhalation, ingestion

**ACUTE EXPOSURE EFFECTS:**

**Inhalation:** Negligible inhalation hazard at temperatures up to 38º C due to its low volatility. Mists or vapors produced at elevated temperatures can irritate the eyes, nose, throat and lungs.

**Ingestion:** Low Toxicity: Aspiration into the lungs can occur during ingestion or subsequent vomiting leading to lung injury (pneumonitis).

**Eye Contact:** Mildly irritating, not known to cause injury.

**Skin Contact:** Irritation is not usually a problem; not absorbed readily. Injection of hydrocarbons into the skin may not appear serious at first; within a few hours tissue will become swollen, discolored and extremely painful.

**CHRONIC EXPOSURE EFFECTS**

**Skin Contact:** Prolonged or repeated contact may cause drying, peeling, itching, reddening, cracking and blistering (dermatitis); increases risk of infection.

**Occupational Exposure Limits:** ACGIH TLV-TWA 5mg/m3 mineral oil mists. Check with the local regulatory agency for the limit in effect in your area (Workers compensation Board in British Columbia).

**Carcinogenicity:** No evidence - ACGIH (mineral oil)
Inadequate evidence - IARC (highly refined mineral oils).

**Mutagenicity:** No evidence - ACGIH (mineral oil)
No evidence - IARC (mineral oil)

**Reproductive Toxicity:** No evidence

**Irritancy:** Mild irritant.

**Sensitization:** No evidence.

**Synergistic Products:** No evidence.

## *SECTION VII - PREVENTATIVE MEASURES*

**PERSONAL PROTECTIVE EQUIPMENT**

**Gloves and Safety Equipment:** Neoprene or nitrile gloves and safety glasses should be worn if contact is possible.

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|---|---|
| **Special Footwear:** | Not applicable. |
| **Clothing:** | Not applicable. |
| **Engineering Controls:** | Not applicable. |
| **Respirators:** | Not applicable. |
| **Leak and Spill Procedure:** | Wear gloves and safety glasses. Absorb with sand, diatomaceous earth or vermiculite, and transfer to a labeled metal container for disposal. |
| **Waste Disposal:** | Remove needle from syringe. Bend or break needle so that it is not reused. Dispose of both the needle and syringe. Ensure disposal is in compliance with government requirements and ensure conformity to local disposal regulations. |
| **Storage:** | Keep bottles sealed, and store in a cool, well-ventilated place away from incompatible materials, and sources of heat or ignition. |
| **Shipping:** | Not included under TDG regulations. |

## *SECTION VIII - FIRST AID MEASURES*

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|---|---|
| **Inhalation:** | Not a problem under normal conditions. If overexposed to vapors or mists, remove victim to fresh air. |
| **Eye Contact:** | Open eyelids and flush with water for twenty minutes. Refer to medical aid if irritation persists. |
| **Skin Contact:** | Flush with water and wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention if product is injected into the skin. |
| **Ingestion:** | Do not induce vomiting. Get immediate medical attention. |