

**HUM-Bug DETECTOR® Kit**

ACCORDING TO WORK HEALTH AND SAFETY (WHS) REGULATIONS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name HUM-Bug DETECTOR® Kit
Trade Name HUM-Bug DETECTOR® Kit

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Detection of micro-organism contamination in hydrocarbon fuels and oils.
Uses Advised Against No Data Available

1.3 Details of the supplier of the safety data sheet

Manufacturer
Company Identification Hammonds Fuel Additives, Inc.
Address of Manufacturer 6951 W Little York
Postal code Houston, Texas 77040
Telephone: +1 800-548-9166
E-mail sales@biobor.com
Office hours Monday-Friday 8:00am-5:00pm EST
Supplier

Company Identification Hammonds Fuel Additives, Inc.
Address of Supplier 6951 W Little York
Postal code Houston, Texas 77040
Telephone: +1 800-548-9166
E-mail sales@biobor.com
Office hours Monday-Friday 8:00am-5:00pm EST

1.4 Emergency telephone number

NSW Poisons Information Centre NSW Poisons Information Centre
The Children's Hospital at Westmead
Locked Bag 4001
Westmead, NSW 2145
NSW Poisons Phone No. 13 11 26
Emergency Phone No. Within United States; Canada; Puerto Rico; US Virgin Islands: 1-800-255-3924
Outside North America: +1-813-248-0585 (Collect calls accepted)
Within Australia 1-300-954-583
Contact ChemTel

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

In accordance to GHS as implemented under WHS Regulations Skin Irrit. 2 :Causes skin irritation.
Eye Irrit. 2A :Causes serious eye irritation.

2.2 Label elements

In accordance to GHS as implemented under WHS Regulations
Product Name HUM-Bug DETECTOR® Kit

HUM-Bug DETECTOR® Kit

Hazard Pictogram(s)



GHS07

Signal Word(s)

Warning

Hazard Statement(s)

H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary Statement(s)

P264: Wash hands and exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see Medical Advice on this label).
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| INGREDIENTS | CAS No. | %W/W | Hazard Statement(s) | Hazard Pictogram(s) |
|--|------------|-------|--|---------------------|
| Water | 7732-18-5 | 54.20 | Not classified | None |
| White mineral oil (petroleum) | 8042-47-5 | 37.80 | Not classified | None |
| glycerol | 56-81-5 | 2.00 | Not classified | None |
| sodium hydroxide | 1310-73-2 | <0.50 | Met. Corr. 1 H290 Skin Corr. 1A H314 | GHS05 |
| Phosphoric acid, potassium salt (1:2) | 7758-11-4 | <0.50 | Not classified | None |
| Phosphoric acid, potassium salt (1:1) | 7778-77-0 | <0.50 | Not classified | None |
| Molybdc acid, disodium salt, dihydrate | 10102-40-6 | <0.50 | Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 | GHS07 |
| Manganese chloride tetrahydrate | 13446-34-9 | <0.50 | Acute Tox. 4 H302 Eye Dam. 1 H318 STOT RE 2 H373 | GHS05 GHS08 |

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| | | | | |
|--|------------|-------|---|-------------------------|
| | | | | GHS07 GHS09 |
| Magnesium (II), sulfate, heptahydrate | 10034-99-8 | <0.50 | Not classified | None |
| Lactic acid, monosodium salt | 72-17-3 | <0.50 | Not classified | None |
| Iron chloride (FeCl ₃), hexahydrate | 10025-77-1 | <0.50 | Met. Corr. 1 H290 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 | GHS05 GHS07 GHS09 |
| Carbonic acid sodium salt (1:1) | 144-55-8 | <0.50 | Not classified | None |
| Calcium chloride (CaCl ₂), dihydrate | 10035-04-8 | <0.50 | Acute Tox. 4 H302 Eye Irrit. 2A H319 | GHS07 |
| Ammonium(I) nitrate (1:1) | 6484-52-2 | <0.50 | Ox. Sol. 3 H272 | GHS03 |
| 2H-Tetrazolium, 2,3,5-triphenyl-, chloride | 298-96-4 | <0.50 | Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 | GHS07 |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|--------------|--|
| Inhalation | Treat symptomatically. |
| Skin Contact | Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). |
| Eye Contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Treat symptomatically. |

4.2 Most important symptoms and effects, both acute and delayed

Can cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

| | |
|--------------------------------|--------------------------------------|
| Suitable Extinguishing media | As appropriate for surrounding fire. |
| Unsuitable extinguishing media | None. |

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

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8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

Normally no personal respiratory protection is necessary.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Appearance | Two-layer Liquid. |
| Colour | Two colorless layers. |
| Odour | Slight hydrocarbon odour. |
| Odour threshold | Not known. |
| pH | Aqueous phase: 6.8-7.0 |
| Melting point/freezing point | Hydrocarbon phase: -9°C |
| Initial boiling point and boiling range | Hydrocarbon phase: 230°C |
| Flash Point | Not known. |
| Evaporation rate | Not known. |
| Flammability (solid, gas) | Not known. |
| Upper/lower flammability or explosive limits | Not known. |
| Vapour pressure | Not known. |
| Vapour density | Not known. |
| Density (g/cc) | Hydrocarbon phase: .84@15°C |
| Relative density | Not known. |
| Solubility(ies) | Solubility (Water): Hydrocarbon phase insoluble in water; aqueous phase 100% soluble in water Solubility (Other): Not known. |
| Partition coefficient: n-octanol/water | Not known. |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature (° C) | Not known. |
| Viscosity | 12.40 cST@40°C |
| Explosive properties | Not known. |

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Oxidising properties Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Strong oxidizers generate heat which may ignite mineral oil.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

| | |
|--------------------------------|--|
| Acute toxicity - Ingestion | Not classified. Calculated acute toxicity estimate (ATE) Calc ATE - 33333.33000 |
| Acute toxicity - Skin Contact | Not classified. |
| Acute toxicity - Inhalation | Not classified. |
| Skin corrosion/irritation | Calculation method : Causes skin irritation. |
| Serious eye damage/irritation | Calculation method : Causes serious eye irritation. |
| Skin sensitization data | Not classified. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| Lactation | Not classified. |
| STOT - single exposure | Not classified. |
| STOT - repeated exposure | Not classified. |
| Aspiration hazard | Not classified. |

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

| | |
|----------------------------------|---|
| Toxicity | May cause long lasting harmful effects to aquatic life. |
| Toxicity - Aquatic invertebrates | Not known. |
| Toxicity - Fish | Not known. |
| Toxicity - Algae | Not known. |

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Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

None specified

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

None known

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Australian Inventory of Industrial Chemicals Listed

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| | |
|---|---|
| IMAP (Inventory Multi-Tiered Assessment and Prioritisation) – Stage One chemicals | 8042-47-5, 56-81-5, 1310-73-2, 7778-77-0, 10102-40-6, 10034-99-8, 10025-77-1, 144-55-8, 10035-04-8, 6484-52-2 |
| List of PECs (Priority Existing Chemicals) | Not listed |
| NPI (National Pollutant Inventory) Schedule 10 of WHS Regulations – Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals | 13446-34-9 6484-52-2 |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS07

Hazard classification

Ox. Sol. 3 : Oxidising solid, Category 3
Met. Corr. 1 : Substance or mixture corrosive to metals, Category 1
Acute Tox. 4 : Acute toxicity, Category 4
Skin Corr. 1A : Skin corrosion/irritation, Category 1A
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Eye Dam. 1 : Serious eye damage/irritation, Category 1
Eye Irrit. 2A : Serious eye damage/irritation, Category 2A
STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2

Hazard Statement(s)

H272: May intensify fire; oxidiser.
H290: May be corrosive to metals.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

P264: Wash hands and exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see Medical Advice on this label).

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

Acronyms

CAS : Chemical Abstracts Service

LTEL : Long term exposure limit

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

Disclaimers

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