

**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
CAS No. Not applicable.

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

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)
National Poisons Centre Phone 0800 765 766
National Poisons Centre Address National Poisons Centre, Dunedin School of Medicine, University of Otago, PO
Box 56, Dunedin 9054, New Zealand
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		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
Molybdcic 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		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	<0.5	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

Causes burns.

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.

**HUM-Bug DETECTOR® Kit****SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shoveled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

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

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.

7.3 Specific end use(s)

Detection of micro-organism contamination in hydrocarbon fuels and oils.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Occupational Exposure Limits**

WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Glycerin (mist)	56-81-5		10			
Sodium hydroxide	1310-73-2		2			Ceiling
Molybdenum, as Mo - Soluble compounds	10102-40-6		5			
Manganese - dust & compounds, as Mn	13446-34-9		0.2			

Region	Source
New Zealand	Workplace Exposure Standards and Biological Exposure Indices, 11th Edition November 2019, New Zealand

Remark	Notes
Ceiling	A concentration that should not be exceeded at any time during any part of the working day

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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/ml)	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**

None anticipated.

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

Not known.

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**

May cause long lasting harmful effects to aquatic life.

Toxicity - Aquatic invertebrates Not known.

Toxicity - Fish Not known.

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Toxicity - Algae Not known.
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

Not known

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

Not 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
NTP (National Toxicology Program)	Not listed
NPI (National Pollutant Inventory)	13446-34-9
Schedule 10 of WHS Regulations – Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals	6484-52-2
NZIoC (New Zealand Inventory of Chemicals)	Listed

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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