

**HUM-Bug DETECTOR® Kit**

ACCORDING TO GHS

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

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

**1.2 Recommended use of the chemical and restrictions on use**

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

**1.3 Supplier's details**

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)  
Contact ChemTel

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

GHS Classification Skin Irrit. 2 :Causes skin irritation.  
Eye Irrit. 2 :Causes serious eye irritation.

**2.2 GHS label elements, including precautionary statements**

GHS  
Product Name HUM-Bug DETECTOR® Kit

Hazard Pictogram(s)



GHS07

Signal Word(s) Warning

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Hazard Statement(s)	H315: Causes skin irritation. H319: Causes serious eye irritation.
Precautionary Statement(s)	P264: Wash hands and exposed skin thoroughly after handling. P273: Avoid release to the environment. 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. P501: Dispose of contents in accordance with local, state or national legislation.

**2.3 Other hazards which do not result in classification**

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**

INGREDIENT(S)	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. 2 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 Aquatic Chronic 2 H411	GHS05 GHS08 GHS07 GHS09
Magnesium (II), sulfate, heptahydrate	10034-99-8	0.50	Not classified	None
Lactic acid, monosodium salt	72-17-3	0.50	Eye Irrit. 2B H320	None
Iron chloride (FeCl <sub>3</sub> ), hexahydrate	10025-77-1	0.50	Met. Corr. 1 H290 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 2 H411	GHS05 GHS07 GHS09

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Carbonic acid sodium salt (1:1)	144-55-8	0.50	Not classified	None
Calcium chloride (CaCl <sub>2</sub> ), dihydrate	10035-04-8	0.50	Acute Tox. 4 H302 Eye Irrit. 2 H319	GHS07
ammonium nitrate	6484-52-2	0.50	Ox. Sol. 3 H272 Eye Irrit. 2B H320	GHS03
2,3,5-triphenyltetrazolium chloride	298-96-4	<0.5	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	GHS07

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

**SECTION 4: FIRST AID MEASURES****4.1 Description of necessary 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/effects, acute and delayed**

May cause irritation.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

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

**SECTION 5: FIRE-FIGHTING MEASURES****5.1 Extinguishing Media**

Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable Extinguishing Media	None.

**5.2 Special hazards arising from the chemical**

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

**5.3 Special protective actions for fire-fighters**

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

**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.

**HUM-Bug DETECTOR® Kit****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**

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
Glycerin - mist	56-81-5		10			
Sodium hydroxide	1310-73-2				2	C, RP
Molybdenum (as Mo)- Soluble compounds	10102-40-6		5			
Manganese - Elemental & inorganic compounds, as Mn	13446-34-9		0.2			Td

Region Source  
Canada Regulation respecting occupational health and safety, Permissible Exposure Values for Airborne Contaminants, Canada 2019

Remark Notes  
C CEILING: The designation "C" in the STEV/Ceiling column refers to a concentration never be exceeded during any length of time whatsoever  
RP Recirculation of air: Any air recirculation system shall be designed so that:(1) the concentration of dusts, fumes, gases, vapors and mists in any work station is lower than the weighted average exposure value permissible in the work environment and the permissible recirculation concentration provided for in Schedule I;(2) a duct is provided for evacuating contaminated air outside the establishment in case the air filtering system breaks down or is not working properly;(3) no dusts, fumes or mists are discharged into a room where no dusts, fumes or mists were present before the air recirculation system is put into operation; and(4) there is no recirculation of gases, vapors, mists, fumes or dusts which are identified under Schedule I as a substance whose recirculation is prohibited.  
Td Total dust

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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. Individual protection measures, such as personal protective 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	Liquid. Color : Two colorless layers
Odor	Slight hydrocarbon odor
Odor Threshold	Not known.
pH	Aqueous phase: 6.8-7.0
Melting Point/Freezing Point	-9 C (15.8 F) Hydrocarbon Mixture
Initial boiling point and boiling range	230 C (446 F) Hydrocarbon Mixture
Flash Point	Not known.
Evaporation Rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
vapor pressure	Not known.
vapor density	Not known.
Density (g/ml)	Hydrocarbon phase: 0.84@15° C
Relative density	Not known.
Solubility(ies)	Solubility (Water) : 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

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Explosive properties Not known.

Oxidizing 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**

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 Disposal Method**

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, if applicable**

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 specific for the product in question**

OSPAR List of Chemicals for Priority Action Not listed

Action

NTP (National Toxicology Program ) Not listed

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IARC (International Agency for Research Not listed  
on Cancer )

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

**LEGEND**

Hazard Pictogram(s)



GHS07

GHS03: GHS: Flame over circle

GHS05: GHS: Corrosion

GHS08: GHS: Health hazard

GHS09: GHS: Environment

Hazard classification

Ox. Sol. 3 : Oxidizing 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. 2 : Serious eye damage/irritation, Category 2

Eye Irrit. 2B : Serious eye damage/irritation, Category 2B

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2

Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Aquatic Chronic 4 : Hazardous to the aquatic environment, Chronic, Category 4

Hazard Statement(s)

H272: May intensify fire; oxidizer.

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.

H320: Causes eye irritation.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.



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H413: May cause long lasting harmful effects to aquatic life.

## Precautionary Statement(s)

P264: Wash hands and exposed skin thoroughly after handling.

P273: Avoid release to the environment.

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.

P501: Dispose of contents in accordance with local, state or national legislation.

## Acronyms

CAS : Chemical Abstracts Service

GHS : Globally Harmonized System of Classification and Labeling of Chemicals

LTEL : Long term exposure limit

PNEC : Predicted No Effect Concentration

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

Key literature references and sources  
for data used to compile the SDS

GHS Classification

## Disclaimers

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