

#### 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.

1.3 Supplier's details

Manufacturer

Company Identification Hammonds Fuel Additives, Inc.

Address of Manufacturer 6951 W Little York
Zip 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

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 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

HAZARDOUS 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	Aquatic Chronic 4 H413	None
Glycerine	56-81-5	2.00	Not classified	None
sodium hydroxide caustic soda	1310-73-2		Met. Corr. 1 H290 Skin Corr. 1A H314	GHS05
dipotassium hydrogenorthophosphate	7758-11-4	0.50	Not classified	None
potassium dihydrogenorthophosphate	7778-77-0	0.50	Not classified	None
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-	10102-40-6		Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	GHS07
Manganese chloride (MnCl2), tetrahydrate	13446-34-9		Acute Tox. 4 H302 Eye Dam. 1 H318 STOT RE 2 H373 Aquatic Chronic 2 H411	GHS05 GHS08 GHS07 GHS09
Sulfuric acid, magnesium salt, hydrate (1:1:7)	10034-99-8	0.50	Not classified	None



sodium lactate	72-17-3	0.50	Eye Irrit. 2B H320	None
Iron chloride (FeCl3), 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
sodium hydrogencarbonate	144-55-8	0.50	Not classified	None
Calcium chloride (CaCl2), 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.

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)

Missing Phrase

## 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	LTEL (8 hr	STEL	STEL	Note:		
		TWA ppm)	TWA mg/m³)	(ppm)	$(mg/m^3)$			
Mineral oil, Pure, highly and severely	8042-47-5		5			ACGIH TLV,		
refined, excluding Metal working fluids						I, A4		
Sodium hydroxide	1310-73-2				2	ACGIH TLV,		
						STEL = C		
Molybdenum and soluble compounds, as	10102-40-6		0.5			ACGIH TLV,		
Мо						R, A3		
Manganese, elemental and inorganic	13446-34-9		0.02			ACGIH TLV,		
compounds, as Mn						R, A4		
Manganese, elemental and inorganic	13446-34-9		0.02			ACGIH TLV,		
compounds, as Mn						R, A4		
Manganese, elemental and inorganic	13446-34-9		0.1			ACGIH TLV, I		
compounds, as Mn								
Manganese, elemental and inorganic	13446-34-9		0.1			ACGIH TLV, I		
compounds, as Mn								



Remark Notes

ACGIH TLV The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2020

Inhalable particulate matter

A4 Not Classifiable as a Human Carcinogen

STEL = C Ceiling limit

R Respirable particulate matter

A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

#### 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 Not known.

limits

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

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.

 ${\bf Skin\ corrosion/irritation} \qquad \qquad {\bf Calculation\ method: Causes\ skin\ irritation.}$ 

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.

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 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 Not listed

Action

NTP (National Toxicology Program ) Not listed IARC (International Agency for Research Not listed

on Cancer)

TSCA Complaint and listed active except CAS# 10025-77-1,10035-04-8,10034-99-

8,13446-34-9 and 10102-40-6 which are hydrates (exempt from listing) and considered to be listed if the CAS number for the anhydrous form is on the

inventory (40CFR720.3(u)(2)).

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

#### **LEGEND**

Hazard Pictogram(s)



GHS03: GHS: Flame over circle

GHS05: GHS: Corrosion

GHS08: GHS: Health hazard

GHS09: GHS: Environment

Hazard classification Ox. Sol. 3 : Oxidizing solid, Category 3

 $\label{eq:metals} \mbox{Met. Corr. 1: Substance or mixture corrosive to metals, Category 1}$ 

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.



Precautionary Statement(s)

## **HUM-Bug DETECTOR® Kit**

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.

H411: Toxic to aquatic life with long lasting effects.

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

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 ATE: Acute Toxicity Estimate

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

Disclaimers

**GHS** Classification

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