

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product Name Biobor®JF
Trade Name Biobor®JF

Synonyms Substituted Dioxaborinanes

CAS No. 8063-89-6

Registration No. No registration no. Offered under derogation pursuant to Article 55(1) of

regulation (EU) No 528/2012

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

Identified Use(s) Biocide for professional use in hydrocarbon fuels – PT6.

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

Postal code

Telephone:

+1 800-548-9166

Fax

Not known.

F-mail

Sales@hiphor.com

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
Fax Not known.
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

Poison Information Centre

Information Children's Hospital P&A Kyriakou, Athens 11762, Greece

Emergency Phone No. (0030) 2107793777

# SECTION 2: HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3 :Flammable liquid and vapour.

Eye Dam. 1: Causes serious eye damage.

Repr. 1B: May damage fertility or the unborn child.



#### 2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name Biobor®JF

Hazard Pictogram(s)







Signal Word(s) Danger

Hazard Statement(s) H226: Flammable liquid and vapour.

H318: Causes serious eye damage.

H360: May damage fertility or the unborn child.

Precautionary Statement(s) P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

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

P310: Immediately call a POISON CENTER/doctor.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P403+P235: Store in a well-ventilated place. Keep cool.

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

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

INGREDIENT(S)	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
		Registration No.			Pictogram(s)
2,2'-[(1-methylpropane-1,3-	2665-13-6	220-198-4	67.6	Flam. Liq. H226	GHS02
diyl)bis(oxy)]bis[4-methyl-1,3,2-				Repr. 1B H360	GHS05
dioxaborinane]				Eye Dam. H318	GHS08
2,2'-oxybis[4,4,6-trimethyl-1,3,2-	14697-50-8	238-749-2	27.4	Flam. Liq. H226	GHS02
dioxaborinane]				Repr. 1B H360	GHS05
				Eye Dam. H318	GHS08
Low boiling point naphtha	64742-89-8	265-192-2	4.5	Flam. Liq. H226	GHS08
				Asp. Tox. 1 H304	
				The naphtha	



				contains less than 0.1% benzene and therefore does not need to be classified as a carcinogen or a	
				mutagen.	
Water - Non-hazardous and other ingredients below reportable levels			.5	Not classified.	None

#### 3.2 Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation IF exposed or concerned: Get medical advice/attention.

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). Take off immediately all contaminated clothing. Rinse skin with water. IF

exposed or concerned: Seek medical advice/attention.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

Ingestion Rinse mouth. Immediately call a POISON CENTER/doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes mild skin irritation and serious eye damage.

## 4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Immediately call a POISON

CENTER/doctor. Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

# 5.1 Extinguishing media

Unsuitable extinguishing media Water jet spray

# 5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. Combustion or thermal decomposition will evolve

toxic and irritant vapours.

## 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire

area because they are likely to rupture under fire conditions.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures



Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

#### 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. Transfer to a container for disposal. Containers must not be punctured or destroyed by burning, even when empty.

#### 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. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges.

# 7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Keep cool.

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials None known.

7.3 Specific end use(s)

PT-6 Biocide for professional use in hydrocarbons.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

#### 8.2 Exposure controls

 $8.2.1. \ \ Appropriate \ engineering \ controls \ \ Use \ non-sparking \ ventilation \ systems, approved \ explosion-proof \ equipment, \ and \ \ or \ or \ or \ or \ or \ or \ \$ 

intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. 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 A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal ha

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.

Colour: Yellow

Odour Aromatic
Odour threshold Not known.
pH Not known.
Melting point/freezing point Not known.
Initial boiling point and boiling range 276.11° C
Flash Point 40.56° C

Evaporation rate < 1 n-Butyl Acetate = 1

Flammability (solid, gas) Not known.

Upper/lower flammability or explosive Not known.

limits

 $\begin{array}{lll} \mbox{Vapour pressure} & \mbox{Not known.} \\ \mbox{Vapour density} & > 1 \mbox{ Air}{=}1 \\ \mbox{Density (g/ml)} & \mbox{Not known.} \\ \mbox{Relative density} & 1.05 \\ \end{array}$ 

Solubility (ies) Solubility (Water): Not known.

Solubility (Other): Not known.

Partition coefficient: n-octanol/water Not known.

Auto-ignition temperature Not known.

Decomposition Temperature (° C) Not known.

Viscosity  $CST@40^{\circ} C = 21.31$ 

Explosive properties Not known.

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

Avoid friction, sparks, or other means of ignition.

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

Acute toxicity - Skin Contact Not classified.

Acute toxicity - Inhalation Not classified.

Skin corrosion/irritation Causes mild skin irritation.
Serious eye damage/irritation Causes serious eye damage.

Rabbit - Severe response - including persistent corneal opacity

Skin sensitization data Not classified.
Respiratory sensitization data Not classified.

Germ cell mutagenicity In vitro bacterial mutation (Salmonella) – negative; In vitro gene mutation assay

(mice) negative; In vitro UDS (rat) - negative; In vivo micronucleus (mice) -

negative

Carcinogenicity Not classified.

Reproductive toxicity May damage fertility or the unborn child.

Rat, no maternal toxicity, embryo/foetal toxicity with increased incidence of variations and malformations. Foetal NOEL = 100 mg/kg; Rabbit, no maternal toxicity, embryo/foetal toxicity with increased incidence of variations. Foetal

NOEL = 25 mg/kg

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 48 h EC50 = 730 mg/ml; NOEC = 170 mg/ml (Daphnia Magna)Toxicity - Fish 96 h LC50 = 79 mg/ml; NOEC = 15 mg/ml (Rainbow Trout)

Toxicity - Algae No data

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment LC50 > 5620 ppm; no mortality or other observed effects (Northern Bob White)



12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Results of PBT and vPvB assessment

Not known.

12.6 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. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. 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

14.1 UN number

UN No. 1993

14.2 UN proper shipping name

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (mixed dioxaborinanes, naphtha)

P001 IBC03 LP01 R001

14.3 Transport hazard class(es)

ADR/RID

Mixed Packing Instructions for

Packages

Special Packing Provisions for

Packages

Mixed Packing Instructions for MP19

Packages

Packing Instructions for Portable Tanks T4

Special Provisions for Portable Tanks TP1 TP29

Tank Code for Tanks LGBF



Special Provisions for Tanks

Vehicle for Tank Carriage FL
ADR Transport Category 3
Tunnel Restriction Code D/E
Special Provisions for Carriage - V12

Packages

Special Provisions for Carriage - Bulk

Special Provisions for Carriage -Loading, Unloading and Handling

Special Provisions for Carriage - S2

Operation

ADR HIN 30

**IMDG** 

IMDG Class 3

Special Provisions 274 601
Limited Quantities 5 L
Excepted Quantities E1

Mixed Packing Instructions for P001 IBC03 LP01 R001

Packages

Special Packing Provisions for

Packages

Packing Instructions for Portable Tanks T4

Special Provisions for Portable Tanks TP1 TP29

IMDG EMS F-E, S-E

Stowage and Handling Category A

Segregation

Marine Pollutant

ICAO/IATA

IATA Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (mixed dioxaborinanes, naphtha)

Excepted Quantities E1
Passenger and Cargo Aircraft Limited Y344

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 10L

Quantities Max net Qty

Passenger and Cargo Aircraft Packing 355

Instructions

Passenger and Cargo Aircraft Max net 60L

Qty

Cargo Aircraft Packing Instructions 366
Cargo Aircraft Max net Qty 220L
Special Provisions A3
Emergency Response Guidebook (ERG) 3L

Code

Labels

Labels 3





14.4 Packing group

Packing group III

14.5 Environmental hazards

Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

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

No information available

# SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very Not listed

High Concern for Authorisation

REACH: ANNEX XIV list of substances Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the Reproductive toxins: Repr1B – Borates: 2,2'-[(1-methylpropane-1,3-

manufacture, placing on the market and diyl)bis(oxy)]bis[4-methyl-1,3,2-dioxaborinane] (2665-13-6), 2,2'-oxybis[4,4,6-

use of certain dangerous substances, trimethyl-1,3,2-dioxaborinane] (14697-50-8)

mixtures and articles

Community Rolling Action Plan Not listed

(CoRAP)

Regulation (EC) N° 850/2004 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the Not listed

European Parliament and of the Council concerning the export and import of

hazardous chemicals

National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

# SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

### LEGEND



Hazard Pictogram(s)







Hazard classification

Flam. Liq. 3: Flammable liquid, Category 3

Eye Dam. 1: Serious eye damage/irritation, Category 1

Repr. 1B: Reproductive toxicity, Category 1B

Hazard Statement(s)

Acronyms

H226: Flammable liquid and vapour. H318: Causes serious eye damage.

H360: May damage fertility or the unborn child.

Precautionary Statement(s)

P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P232: Protect from moisture.

P233: Keep container tightly closed.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.

P310: Immediately call a POISON CENTER/doctor.

 ${\sf P403+P235} \hbox{: Store in a well-ventilated place. Keep cool.}$ 

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

ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Goods by Road

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures

DNEL: Derived No Effect Level

EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods

 $\label{eq:long_term} \mathsf{LTEL}: \mathsf{Long} \ \mathsf{term} \ \mathsf{exposure} \ \mathsf{limit}$ 

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals



RID: Regulations concerning the International Carriage of Dangerous Goods by

Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

**UN**: United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Disclaimers Regulation (EC) No. 1272/2008 (CLP)

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