

**Biobor®JF**

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 Biobor®JF
Trade Name Biobor®JF
Synonyms Substituted Dioxaborinanes

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

Identified Use(s) Biocide additive for petroleum products.
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 Flam. Liq. 3 :Flammable liquid and vapour.
Skin Irrit. 2 :Causes skin irritation.
Eye Dam. 1 :Causes serious eye damage.

2.2 Label elements

In accordance to GHS as implemented under WHS Regulations
Product Name Biobor®JF

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Hazard Pictogram(s)



GHS02



GHS05

Signal Word(s)

Danger

Hazard Statement(s)

H226: Flammable liquid and vapour.

H318: Causes serious eye damage.

Precautionary Statement(s)

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.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.

P310: Immediately call a POISON CENTER/doctor.

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

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
2,2'-[(1-methylpropane-1,3-diyl)bis(oxy)]bis[4-methyl-1,3,2-dioxaborinane]	2665-13-6	67.60	Not classified.	None
2,2'-oxybis[4,4,6-trimethyl-1,3,2-dioxaborinane]	14697-50-8	27.40	Not classified.	None
Low boiling point naphtha	64742-89-8	4.50	Flam. Liq. H226 Asp. Tox. 1 H304 Muta. 1B H340 Carc. 1B H350	GHS08
Non-hazardous and other ingredients below reportable levels		0.50	Not classified.	None

3.2 Mixtures

Not applicable.

**Biobor® JF****SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

Inhalation	Treat symptomatically.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water.
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	Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

May cause skin irritation and eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER/doctor. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable Extinguishing media	Use water spray, dry powder or carbon dioxide to extinguish.
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. Wear suitable protective clothing, gloves and eye/face protection.

6.2 Environmental precautions

This material and its container must be disposed of in a safe way.

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. Wear protective gloves/protective clothing/eye protection/face protection. Keep away from heat,

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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 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)

Biocide additive for petroleum products.

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 intrinsically safe electrical systems. 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. Handling of larger amounts A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

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.

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Initial boiling point and boiling range	Not known.
Flash Point	40.56 ° C
Evaporation rate	< 1 n-Butyl Acetate = 1
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	Not known.
Vapour density	> 1 Air=1
Density (g/ml)	Not known.
Relative density	1.05
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° 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	Low acute toxicity
Acute toxicity - Skin Contact	Low acute toxicity
Acute toxicity - Inhalation	Low acute toxicity
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitization data	Not classified

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Respiratory sensitization data	Not classified
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
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	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
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. 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 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)

**Biobor® JF****14.3 Transport hazard class(es)**

ADR/RID

ADR/RID Class	3
ADR Classification Code	F1
Special Provisions	274 601
Limited Quantities	5 L
Excepted Quantities	E1
Emergency Action Code	•3Y
Mixed Packing Instructions for Packages	P001 IBC03 LP01 R001
Special Packing Provisions for Packages	
Mixed Packing Instructions for Packages	MP19
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 - Packages	V12
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading, Unloading and Handling	
Special Provisions for Carriage - Operation	S2
ADR HIN	30
IMDG	
IMDG Class	3
Special Provisions	274 601
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for Packages	P001 IBC03 LP01 R001
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 Segregation	Category A
Marine Pollutant	
ICAO/IATA	
IATA Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (mixed dioxaborinanes, naphtha)
Excepted Quantities	E1

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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

Australian Inventory of Industrial Chemicals	Listed
IMAP (Inventory Multi-Tiered Assessment and Prioritisation) – Stage One chemicals	64742-89-8
List of PECs (Priority Existing Chemicals)	Not listed
NPI (National Pollutant Inventory)	Not listed
Schedule 10 of WHS Regulations – Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals	Not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Biobor® JF

Hazard Pictogram(s)



GHS02



GHS05

GHS08: GHS: Health hazard

Hazard classification

Flam. Liq. 3 : Flammable liquid, Category 3

Asp. Tox. 1 : Aspiration hazard, Category 1

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

Muta. 1B : Germ cell mutagenicity, Category 1B (64742-89-8)

Carc. 1B : Carcinogenicity, Category 1B (64742-89-8)

Hazard Statement(s)

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H318: Causes serious eye damage.

H340: May cause genetic defects. (64742-89-8)

H350: May cause cancer. (64743-89-8)

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

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

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.

P310: Immediately call a POISON CENTER/doctor.

P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.

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

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

Acronyms

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

IATA : International Air Transport Association

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IBC : Intermediate Bulk Container

ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

LTEL : Long term exposure limit

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

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