

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 safe	ety 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
Fax	Not known.
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

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



Product Name	According to Regulation (Biobor®JF	ΈC) No. 1272/2008 (CLP)	
Hazard Pictogram(s)			
	GHS02	GHS05	GHS08
Signal Word(s)	Danger		
Hazard Statement(s)	H226: Flammable liquid a H318: Causes serious eye H360: May damage fertili	e damage.	
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	.5	Not classified.	None
ingredients below reportable levels			

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 ef	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			
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. 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 No Occupational Exposure Limits 8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned. 8.2 Exposure controls Use non-sparking ventilation systems, approved explosion-proof equipment, and 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 Wear eye protection with side protection (EN166).



Biobor®JF

	Skin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
X	Respiratory protection	A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
	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

5.1 mormation on busic physical and	renemical properties
Appearance	Liquid.
	Colour : Yellow
Odour	Aromatic
Odour threshold	Not known.
рН	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	
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	5
		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 produc	ts
		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 assessn	nent
		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.

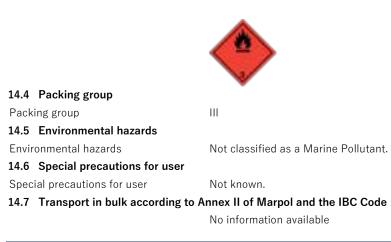
SECTION 14: TRANSPORT INFORMATION

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)
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	P001 IBC03 LP01 R001
Packages	
Special Packing Provisions for	
Packages	
Mixed Packing Instructions for	MP19
Packages	
Packing Instructions for Portable Tanks	Τ4
Special Provisions for Portable Tanks	TP1 TP29
Tank Code for Tanks	LGBF

Special Flowslons for Failks	
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	Τ4
Special Provisions for Portable Tanks	TP1 TP29
IMDG EMS	F-E, S-E
Stowage and Handling	Category A
Segregation	
Marine Pollutant	
ΙCAO/ΙΑΤΑ	
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







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	
8	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

(flemmends)	SAFETY DATA SHEET		8-4-2021		
Biobor®JF					
Hazard Pictogram(s)					
	GHS02	GHS05	GHS08		
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)	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 contain	P233: Keep container tightly closed.			
	P280: Wear protecti	P280: Wear protective gloves/protective clothing/eye protection/face protection.			
	Remove contact len	IF IN EYES: Rinse cautiously ses, if present and easy to d used or concerned: Get med	-		
	P310: Immediately o				
	P403+P235: Store in a well-ventilated place. Keep cool.				
		cal, state or national legislation.			
Acronyms	ADN : European Agr Goods by Inland Wa		national Carriage of Dangerous		
	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 mix	tures			
DNEL : Derived No Effect Le					
	EC : European Comi		ercial Chemical Substances		
	EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Internediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit				
PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration					
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals					
	0				



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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