

## ACCORDING TO GHS

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

1.1 GHS Product Identifier	
Product Name	Biobor <sup>®</sup> JF
Trade Name	Biobor®JF
Synonyms	CAS 8063-89-6 (Substituted Dioxaborinanes)
1.2 Recommended use of the chem	nical and restrictions on use
Identified Use(s)	Biocide additive for petroleum products.
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, TX 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, TX 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	
National Poisons Centre Phone	0800 765 766
National Poisons Centre Address	National Poisons Centre, Dunedin School of Medicine, University of Otago, PO
	Box 56, Dunedin 9054, New Zealand
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 IDENTIFICAT	10N
SECTION 2. HAZANDS IDENTIFICAT	

## 2.1 Classification of the substance or mixture

GHS Classification	Flam. Liq. 3 :Flammable liquid and vapour.		
	Skin Irrit. 2 :Causes skin irritation.		
	Eye Dam. 1 :Causes serious eye damage.		
2.2 GHS label elements, including precautionary statements			
	GHS		
Product Name	Biobor®JF		

SAFETY DATA SHEET	08-04-2024
Biobor®JF	
GHS02	GHS05
Danger	
H226: Flammable liquid and vapour. H315: Causes skin irritation.	
H318: Causes serious eye damage.	
sources. No smoking. P280: Wear protective gloves/protect P303+P361+P353: IF ON SKIN (or ha clothing. Rinse skin with water. P305+P351+P338: IF IN EYES: Rinse Remove contact lenses, if present and P310: Immediately call a POISON CEN	
	Biobor®JF With the second sec

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-	2665-13-6	67.60	Not classified.	None
methyl-1,3,2-dioxaborinane]				
2,2'-oxybis[4,4,6-trimethyl-1,3,2-dioxaborinane]	14697-50-8	27.40	Not classified.	None
_ow boiling point naphtha	64742-89-8	4.50	Flam. Liq. H226	GHS08
			Asp. Tox. 1 H304	
			Muta.1B H340	
			Carc. 1B H350	
Non-hazardous and other ingredients below		0.50	Not classified.	None
eportable levels				

Substance registered as 8063-89-6

## 3.2 Mixtures

Not applicable.



## SECTION 4: FIRST AID MEASURES

	y 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). 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/effects, acute and delayed		
	Skin irritation and eye damage.	

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

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 chemical		
	Flammable liquid and vapour. Combustion or thermal decomposition will evolve	
	toxic and irritant vapours.	
5.3 Special protective actions for fire-fighters		
	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,	
	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. Individual protection measures	
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.
рН	Not known.
Melting point/freezing point	Not known.
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	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		
	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 skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Skin sensitization data	Not classified.
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 Disposal Method

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

# 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 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	Τ4



Special Provisions for Portable Tanks IMDG EMS Stowage and Handling Segregation	TP1 TP29 F-E, S-E Category A	
Marine Pollutant		
ICAO/IATA		
IATA Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (mixed dioxaborinanes, naphtha)	
Excepted Quantities	E1	
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y344	
Passenger and Cargo Aircraft Limited	10L	
Quantities Max net Qty		
Passenger and Cargo Aircraft Packing	355	
Instructions		
Passenger and Cargo Aircraft Max net Qty	60L	
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, if applicable	<b>*</b>	
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	

No information available

# SECTION 15: REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations specific for the product in question

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OSPAR List of Chemicals for Priority	Not listed	
Action		
NTP (National Toxicology Program)	Not listed	
IARC (International Agency for Research Not listed		
on Cancer)		
NZIoC (New Zealand Inventory of	Listed 8063-89-6	
Chemicals		
New Zealand EPA Group Standard	HSR002495	



# SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND		
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	
	Skin Irrit. 2 : Skin corrosion/irritation, Category 2	
	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.	
	H315: Causes skin irritation.	
	H318: Causes serious eye damage.	
	H340: May cause genetic defects. (64742-89-8)	
	H350: May cause cancer. (64742-89-8)	
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other sources. No smoking. P233: Keep container tightly closed.	ignition
	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.	
	P264: Wash hands and exposed skin thoroughly after handling.	
	P280: Wear protective gloves/protective clothing/eye protection/face pro	tection.
	P302+P352: IF ON SKIN: Wash with plenty of water.	
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contar clothing. Rinse skin with water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several m Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor.	

P310: Immediately call a POISON CENTER/doctor.



	P321: Specific treatment (see Medical Advice on this label).
	P332+P313: If skin irritation occurs: Get medical advice/attention.
	P362+P364: Take off contaminated clothing and wash it before reuse.
	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
	GHS : Globally Harmonised System of Classification and Labelling of Chemicals IATA : International Air Transport Association IBC : Intermediate Bulk Container
	ICAO : International Civil Aviation Organization
	IMDG : International Maritime Dangerous Goods
	LTEL : Long term exposure limit
	PNEC : Predicted No Effect Concentration
	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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