

HAMMONDS FUEL ADDITIVES INC. -- BIOBOR JF -- 6840-01-041-0098

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Product Identification  
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Product ID: BIOBOR JF  
MSDS Date: 05/01/1995  
FSC: 6840  
NIIN: 01-041-0098  
MSDS Number: BYSDF  
=== Responsible Party ===  
Company Name: HAMMONDS FUEL ADDITIVES INC.  
Address: P.O. BOX 38114-407  
City: HOUSTON  
State: TX  
ZIP: 77238  
Country: US  
Info Phone Num: 713-442-3777  
Emergency Phone Num: 713-442-3777 OR 800-424-9300  
Preparer's Name: WALTER P. CHARTRAND  
CAGE: 47186  
=== Contractor Identification ===  
Company Name: HAMMONDS FUEL ADDITIVES  
Box: City: HOUSTON  
State: TX  
ZIP: 77238  
Country: US  
CAGE: 0U7J1  
Company Name: HAMMONDS FUEL ADDITIVES INC.  
Address: P.O. BOX 38114-407  
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Composition/Information on Ingredients  
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Ingred Name: MINERAL SPIRITS (NAPHTHA)  
CAS: 64475-85-0  
RTECS #: PY8240000  
Fraction by Wt: 4.5%

Other REC Limits:NONE RECOMMENDED

Ingred Name:2,2'-(1-METHYLTRIMETHYLENEDIOXY) BIS-(4-METHYL-1,3,2-DIOXABORINANE) (MSDS CAS#8063-89-6)

CAS:2665-13-6

RTECS #:JG7400000

Fraction by Wt: 67.6%

Other REC Limits:NONE RECOMMENDED

Ingred Name:2,2'-OXYBIS (4,4,6-TRIMETHYL-1,3,2-DIOXABORINANE) (MSDS CAS#:8063-89-6)

CAS:14697-50-8

RTECS #:JG7460000

Fraction by Wt: 27.4%

Other REC Limits:NONE RECOMMENDED

Ingred Name:INERT MATERIALS

Fraction by Wt: 0.5%

Other REC Limits:NONE RECOMMENDED

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===== Hazards Identification =====

LD50 LC50 Mixture:LD50 ORAL, RATS 3.16ML/KG OF BODY WT.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INGEST:NAUSEA, VOMITING. EYE:SLIGHT TO MODERATE IRRIT. SKIN:ERYTHEMA IF SKIN NOT WASTED OFF AFT CONTACT. PRODUCT NON-CORROSIVE. INHAL:CAN CAUSE DIZZINESS & NAUSEA.

Explanation of Carcinogenicity:PER MSDS:NOT LISTED IN NTA/IARC/OSH

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LISTS.

Effects of Overexposure:EYE:TRANSIENT CONJUCTIVAL BLISTERING,CORNEAL OPACITY. DERMAL:REPEATED DAILY CONTACT MAY RESULT IN ERYTHEMA,ATONIA,DESQUAMATION,CORIACEOUSNESS,FISSURING,EDEMA.NO KIDNEY/LIVER INVOLVEMENT NOTED IN ANIMA L STUDIES. INHAL:DIZZINESS,NAUSEA.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:EYE:FLUSH W/TEPID WATER 15MINS.IRRIT SEE DR. SKIN:REMOVE

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CONTAMIN CLOTH/SHOES.WASH W/MILD SOAP/LOTS OF WATER. INHAL:REMOVE TO FRESH AIR.SHOULD UNFORESEEN SYMPTOMS DEVELOP SEE DR. INGEST:DO NOT INDUCE VOMIT.DRINK 2-3 GLASSES OF WATER/MILK.SEE DR. DR:TREAT FOR PETRO DISTILLATE EXPO.MATL DEOCMPOSES TO GLYCOL & BORIC ACID.

===== Fire Fighting Measures =====

Flash Point Method:TCC  
Flash Point:102F,39C  
Lower Limits:UNKNONW  
Extinguishing Media:CO2 POWDER, FOAM-TYPE B, WATER SPRAY.  
Fire Fighting Procedures:WEAR B REATHING APPARAUTS WHICH IS NIOSH APPROVED SUCH AS SCOTT AIRPAC, THAT IS POSITIVE PRESSURE & SELF-CONTAINED.  
Unusual Fire/Explosion Hazard:NONE. (FLAMMABLE LIQUID.)

===== Accidental Release Measures =====

Spill Release Procedures:TAKE UP W/ABSORBENT FOR ORGANIC LIQUIDS.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP AWAY FROM IGN SOURCES-NO SMO KING.KEEP DRY & COOL, STORE IN WELL VENTILATED AREA.KEEP AWAY FROM HEAT/OPN FLAME.READ CNTNR LABEL.  
Other Precautions:KEEP CNTNR CLSD WHEN NOT IN USE TO AVOID PRODUCT EXPO TO ATM MOISTURE.DO NOT CONTAMIN WATER/FOOD/FEED.TRIPLE RINSE CNTNR(OR EQUIVALENT);THEN OFFER FOR RECYCL/RECONDITION/PUNCTURE/DISPOSE IN SANITARY L ANDFILL/OTHER PROCEDURES APPROV BY GOVT.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:STANDARD DISPOSABLE FOR ORG ANIC VAPORS.  
Ventilation:LOCAL EXHAUST IS SUFFICIENT.  
Protective Gloves:SOLVENT RESISTANT GLOVES.  
Eye Protection:CHEMICAL SPLASH GOGG/FACE SHIELD.  
Other Protective Equipment:NONE.  
Work Hygienic Practices:WASH HANDS AFTER HANDLING.  
Supplemental Safety and Health  
HYDROLYZES TO YIELD BORIC ACID.

===== Physical/Chemical Properties =====

HCC:F4  
Boiling Pt:B.P. Text:529F,276C  
Vapor Density:>1, AIR=1  
Spec Gravity:1.05 @70F  
Solubility in Water:NONE, HYDROLYES  
Appearance and

Odor:YELLOW LIQUID WITH AROMATIC ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

EXPOSURE TO WATER.

Stability Condition to Avoid:EXPOSURE TO WATER;CONTAINERS THAT MUST BE BENTED TO ATMOSPHER SHOULD USE A DESICCANT DRYER.

Hazardous Decomposition Products:NONE.

===== Disposal Considerations =====

Waste Disposal Methods:COVERED LANDFILL.CONTACT STATE PESTICIDE/ENVIRO CNTRL AGENCY/HAZ WA

STE REP @EPA REGIONAL OFC FOR GUIDELINES.CNTNR

RECYCLING ENCOURAGED.WASTE FRM USE OF PROD MAY BE DIPSOED OF ON SITE/@APPROVED DISPO F ACI.

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