

HOMMOUNDS FUEL ADDITIVES INC -- BIOBOR JF -- 6840-00-300-6373

===== Product Identification =====

Product ID:BIOBOR JF
MSDS Date:05/01/1995
FSC:6840
NIIN:00-300-6373
MSDS Number: BVHCY
=== Responsible Party ===
Company Name:HOMMOUNDS FUEL ADDITIVES INC
Address:15760 W. HARDY, SUITE 400
City:HOUSTON
State:TX
ZIP:77060-3147
Country:US
Info Phone Num:713-820-5674
Emergency Phone Num:713-820-5674/800-4
24-9300(CHEMTREC)
Preparer's Name:WALTER P. CHARTRAND
CAGE:LO246
=== Contractor Identification ===
Company Name:HAMMONDS FUEL ADDITIVES
Box:City:HOUSTON
State:TX
ZIP:77238
Country:US
CAGE:0U7J1
Company Name:HOMMOUNDS FUEL ADDITIVES INC
Address:15760 W. HARDY, SUITE 400
Box:38114-
City:HOUSTON
State:TX
ZIP:77060-3147
Country:US
Phone:713-820-5674
CAGE:LO246

===== Composition/Information on Ingredients =====

Ingred Name:HYDROTREATED HEAVY NAPHTHA
CAS:64742-48-9
Fraction by Wt:

4.5%
Other REC Limits:NONE RECOMMENDED

Ingred
Name:2,2'-(1-METHYLTRIMETHYLENEDIOXY)BIS-(4-METHYL-1,3,2-DIOXABORINANE)
CAS:8063-89-6
Fraction by Wt: 67.6%
Other REC Limits:NONE RECOMMENDED

Ingred Name:2,2'OXYBIS(4,4,6-TRIMETHYL-1,3,2-DIOXABORINANE)
CAS:8063-89-6
Fraction by Wt: 27.4%
Other REC Limits:NONE RECOMMENDED

Ingred Name:INERT INGREDIENTS
Fraction by Wt: 0.5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:INGREDIENTS 2 & 3 CAS # IS THE SAME, AS GIVEN BY THE MFR.
THE CAS #
IS A GENERIC FOR THE FAMILY "MIXED DIOXABORINANES"
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 3011 MG/KG.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY TRACT. ACUTE- EYE:SLIGHT TO MODERATE IRRITATION.
SKIN:PROLONGED/REPEATED CONTACT MAY CAUSE DEFATTING, IRRITATION.
INHALE:CAN CAUSE DIZZINESS AND NAUSEA. ORAL:MAY BE HARMFUL.
CHRONIC- MAY CAUSE DIZZINESS, NAUSEA, SKIN ERYTHEMA, TRANSIENT CONJUNCTIVAL BLISTERING.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, DIZZINESS, NAUSEA, VOMITING, HEADACHE, WEAKNESS, ABDOMINAL DISCOMFORT, DRYNESS OF SKIN, ABDOMINAL PAIN
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT MAY HAVE INCREASED SUSCEPTIBILI

TY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:DO NOT IN DUCE VOMITING. IF CONSCIOUS, DRINK 2-3 GLASSES OF MILK OR WATER. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:TCC

Flash Point:102F,39C

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, SAND, FOAM, DRY CHEMICAL OR ANY CLASS B EXTINGUISHING AGENT.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN SPILL. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH. TRANSFER TO A SUITABLE CONTAINER FOR DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, VENTILATED AREA AWAY

FROM SOURCES OF IGNITION & WATER. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:EMPTY CONTAINERS MAY RETAIN RESIDUE. FOLLOW ALL PRECAUTIONS. DO NOT GET IN EYES. DO NOT BREATHE VAPOR OR MIST. AVOID PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

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

Respiratory Protection:IF WORKING IN CONFINED AREAS, IF EXCESSIVE MISTING IS EXPECTED OR

IF EXPOSURE MAY OR DOES EXCEED RECOMMENDED
PERMISSIBLE EXPOSURE LIMITS (PEL), WEAR NIOSH-APPROVED RESPIRATORY
PROTECTION FOR ORGANIC VAPORS (REFER TO 29 CFR 1910.134).
Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF)
VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves:NEOPRENE IF REPEATED CONTACT POSSIBLE
Eye Protection:CHEMICAL SAFETY GOGGLES
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER,
INDUSTRIAL-TYPE WORK CLOTHING, APRON

Work
Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.

Supplemental Safety and Health
FUEL ADDITIVE THAT COMBATS FUNGUS AND OTHER MICROBIAL LIFE IN
HYDROCARBON FUELS. INGREDIENTS NOTE: CAS # FOR INGREDIENTS 2 & 3 IS
THE SAME BECAUSE CAS # IS FOR THE SAME GENERIC CHEMICAL FAMILY (AS
GIVEN BY MFR); FAMILY IS MIXED DIOXABORINANES.

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

HCC:F4
NRC/State Lic Num:NOT RELEVANT
Boiling Pt
:B.P. Text:529F,276C
Vapor Density:>1
Spec Gravity:1.05
Solubility in Water:NONE
Appearance and Odor:YELLOW LIQUID, AROMATIC ODOR

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

Stability Indicator/Materials to Avoid:YES
WATER
Stability Condition to Avoid:HEAT, SPARKS, FLAMES AND OTHER SOURCES OF
IGNITION
Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:DISPOSAL SHOULD BE IN ACCORDANCE WITH

H ALL LOCAL,
STATE AND FEDERAL REGULATIONS. DO NOT CONTAMINATE WATER, FOOD OR
FEED. INCINERATION RECOMMENDED.

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