

UNITED STATES BORAX AND CHEMICAL CORP. -- BIOBOR JF (DIESEL FUEL ADDITIVE PART II) --  
6840-00-300-6373

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

Product ID: BIOBOR JF (DIESEL FUEL ADDITIVE PART II)  
MSDS Date: 05/11/1987  
FSC: 6840  
NIIN: 00-300-6373  
MSDS Number: BDWNQ  
=== Responsible Party ===  
Company Name: UNITED STATES BORAX AND CHEMICAL CORP.  
Address: 3075 WILSHIRE BLVD  
Box: 2781  
City: LOS ANGELES  
State: CA  
ZIP:  
90010-1207  
Country: US  
Emergency Phone Num: 714-774-2673  
Preparer's Name: JOHN C. MIDDLETON, MGR  
CAGE: DO718  
=== Contractor Identification ===  
Company Name: U S BORAX AND CHEMICAL CORP  
Address: 3075 WILSHIRE BLVD  
Box: 2781 T  
City: LOS ANGELES  
State: CA  
ZIP: 90010-1207  
Country: US  
CAGE: 24611  
Company Name: UNITED STATES BORAX AND CHEMICAL CORP  
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Box: 2781  
City: LOS ANGELES  
State: CA  
ZIP: 90010  
Phone: 714-774-2673  
CAGE: DO718

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

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Ingred  
Name:2,2'-(1-METHYLTRIMETHYLENEDIOXY)BIS-(4-METHYL-1,3,2-DIOXABORIN  
ANE)  
CAS:8063-89-6  
= Wt:67.6

Ingred Name:2,2'-OXYBIS(4,4,6-TRIMETHYL-1,3,2,-DIOXABORINAANE)  
CAS:8063-89-6  
= Wt:27.4

Ingred Name:NAPHTA (PETROLEUM SPIRITS OR BENZIN)  
CAS:8030-30-6  
RTECS #:DE3030000  
= Wt:4.5  
OSHA PEL:100 PPM

Ingred Name:INERT INGREDIENTS (TYPE NOT SPECIFIED)  
= Wt:.5

Ingred Name:PRODUCT CONTAINS TRACE AMTS OF ARSENIC,A CHEM. KNOWN TO  
CALIFORN. TO CAUSE CANCER. EXPOSURE WILL NOT EXCEED "OS  
HA PEL"  
RTECS #:9999999ZZ

Ingred Name:UNLESS USED IN A MANNER THAT PRODUCES EXTREMELY HEAVY  
AIRBORNE CONC. OF BORATE MATER. AT LEVELS HIGHLY EXCEEDING LIMITS  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:LD50 DERMAL RABBIT 9.1 ML/KG  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: EYE:IRRITATION,TRANSIENT  
CONJUNCTIVAL BLISTERING  
;SKIN:SLIGHT  
ERYTEMA;INHALATION:NAUSEA,DIZZINESS;INGESTION:NAUSEA,VOMITING.  
CHRONIC: EYE:TRANSIENT CONJUNCTIVAL BLISTERING,CORNEAL  
OPACITY;SKIN:  
ERYTHEMA,ATONIA,DESQUAMATION,CORIACEOUSNESS,FISSURING,EDEMA.NO  
KIDNEY,LIVER INVOLVEMENT NOTED ON ANIMAL STUDIES.  
Effects of Overexposure:EYES: IRRITATION, TRANSIENT CONJUNCTIVAL  
BLISTERING, CORNEAL OPACITY; SKIN: SLIGHT ERYTHEMA, ATONIA,  
DESQUAMATION, CORIACEOUSNESS, FISSURING & EDEMA; INHAL: NAUSEA &  
DIZZINESS; INGEST:

NAUSEA, VOMITIN G.

Medical Cond Aggravated by Exposure:ANY MEDICAL CONDITIONS AFFECTING  
SAME ORGANS AS THOSE AFFECTED BY OVEREXPOSURE.

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

First Aid:EYES: FLUSH W/TEPID WATER FOR 15 MIN.-GET MED. ATTN.; SKIN:  
WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING; INHAL: REMOVE TO  
FRESH AIR. GIVE CPR/O2 AS SITUATION DICTATES. KEEP PERSON WARM &  
QUIET; INGEST: DO NOT INDUCE VOMITING. DRINK 2-3 GLASSES OF WATER  
OR M  
ILK. GET MED. ATTN.; NOTE:TREAT FOR PETROL. DISTILL. EXPOSURE-  
MATERIAL DECOMPOSES TO GLYCOL & BORIC ACID IN CONTACT W/WATER.

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

Flash Point Method:TCC  
Flash Point:=38.9C, 102.F  
Extinguishing Media:CO\*2,FOAM,DRY CHEM,  
Fire Fighting Procedures:WEAR SELF-CNTD BRTHG,APP H\*20 SPRAY TO COOL  
CONTR.  
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:  
TAKE UP W/ ORGANIC LIQUID ABSORBENT. PLACE IN  
APPROVED DRUM FOR DISPOSAL; FOR LARGE SPILL- STOP LEAK IF POSSIBLE,  
DIKE TO RETAIN MATERIAL. PUMP/VACUUM MATERIAL & PLACE IN A CLOSED  
CONTAINER.

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

Handling and Storage Precautions:KEEP AWAY FROM HEAT OR OPEN FLME.  
KEEP CLOSED TO AVOID EXPOSURE TO ATMOSPHERIC MOISTURE.  
Other Precautions:KEEP CONTAINERS CLOSED WHEN NOT IN USE TO AVOID  
PRODUCT EXPOSURE TO ATMOSPHERI  
C MOISTURE.DO NOT CONTAMINATE  
WATER,FOOD OR FEED.READ CONTAINER LABEL BEFORE USE.

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

Respiratory Protection:NIOSH/MESA APPROVED RESP  
Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.  
Protective Gloves:IMPERVIOUS  
Eye Protection:GOGGLES/FACE SHIELD  
Other Protective Equipment:NORMAL WORK CLOTHING COVERING ARMS & LEGS.  
Supplemental Safety and Health  
EPA. REG. NO. 1624-71; ACUTE LD50(ORAL-RAT 3.16 ML/KG; DERMAL-RABBIT  
9.1 ML/KG)

/// FOR PART I OF THE ADDITIVE, SEE 6850-01-167-4788.

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

HCC:F4

Spec Gravity:1.05 @ 70F

Solubility in Water:NONE;HYDROLYZES

Appearance and Odor:YELLOW LIQUID-AROMATIC ODOR

Percent Volatiles by Volume:5

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

Stability Indicator/Materials to Avoid:YES

OZIDIZERS

Stability Condition to Avoid:EXPOSURE TO WATER RESULTS IN HYDROLYSIS

Hazardous Decomposition Products:HYDRO

LYZES IN WATER TO GIVE BORIC ACID

& GLYCOL.

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

Waste Disposal Methods:COVERED LANDFILL. CONTACT STATE PESTICIDE OR ENVIRONMENTAL CONTAOOL AGENCY OR HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDELINES. DO NOT CONTAMINATE WATER, FOOD, OR FEED. READ CONTAINER LABEL.

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