

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
Address: 3075 WILSHIRE BLVD
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.

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First Aid Measures
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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.

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Fire Fighting Measures
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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

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Accidental Release Measures
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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
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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.

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Exposure Controls/Personal Protection
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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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