

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 ===

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===== 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 "O
SHA 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 BLISTERIN
G;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 MILK. 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 ATMOSPHERIC 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:HYDR

OLYZES 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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