

BETZ DEARBORN INC -- SPEC-AID 8Q462

=====
MSDS Safety Information
=====

FSC: 6850
NIIN: 01-432-7871
MSDS Date: 07/29/1998
MSDS Num: CKVXF
Product ID: SPEC-AID 8Q462
MFN: 01
Responsible Party
Cage: 1CWF7
Name: BETZ DEARBORN INC
Address: 4636 SOMERTON RD
City: TREVOSE PA 19053
Info Phone Num
ber: 215-355-3300/215-773-6223
Emergency Phone Number: 800-877-1940(USA)
Proprietary Ind: Y
Published: Y

=====
Contractor Summary
=====

Cage: 0TC96
Name: BETZ LABORATORIES INC BETZ INDUSTRIAL DIV
Address: 1 QUALITY WAY
City: TREVOSE PA 19053
Phone: UNKNOWN
Cage: 1CWF7
Name: BETZDEARBORN INC
Address: 4636 SOMERTON ROAD
City: TREVOSE PA 19053
Phone: 215-355-3300

=====
Item Description Information
=====

Item Manager: S9G
Item Name: ADDITIVE, THERMAL STABILIZER, JET FUEL
Unit of Issue: DR
Quantitative Expression: 0000000005GL

=====
Ingredients
=====

Name: *** PROPRIETARY ***

=====

=====
Health Hazards Data
=====

LD50 LC50 Mixture: ORAL LD50 RAT >2,000 MG/KG

Route Of Entry Inds - Inhalation: YES

Skin: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: TARGET ORGANS: PROLONGED OR REPEATED EXPOSURES MAY CAUSE CNS DEPRESSION AND/OR DEFATTING-TYPE DERMATITIS. SKIN: MAY CAUSE MODERATE IRRITATION TO THE SKIN. MAY CAUSE DERMATITIS. EYE: SEVERE IRRITANT TO THE EYES. RESPIRATORY: VAPORS, GASES, MISTS OR AEROSOLS MAY CAUSE IRRITATION TO

THE UPPER RESPIRATORY TRACT. PROLONGED EXPOSURE MAY CAUSE DIZZINESS AND HEADACHE. INGESTION: MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIZZINESS, LETHARGY AND BLURRING OF VISION. CARDIAC FAILURE AND PULMONARY EDEMA MAY DEVELOP. LARGE DOSES CAUSE SEVERE KIDNEY DAMAGE. MAY BE FATAL. ASPIRATION MAY CAUSE LUNG INJURY OR DEATH.

Explanation Of Carcinogenicity: NO COMPONENT IS CONSIDERED TO BE A CARCINOGEN BY NTP, IARC, OR OSHA AT OSHA THRESHOLDS FOR CARCINOGENS.

Signs And Symptoms Of

Overexposure: EXCESSIVE DERMAL EXPOSURE CAUSES DEFATTING AND DRYING OF SKIN. EXCESSIVE INHALATION OF VAPORS CAUSES DIZZINESS, HEADACHES AND NAUSEA.

Medical Cond Aggravated By Exposure: NONE KNOWN.

First Aid: SKIN: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH A LARGE QUANTITY OF SOAP SOLUTION OR WATER FOR 15 MINUTES. EYE: REMOVE CONTACT LENSES. HOLD EYELIDS APART. IMMEDIATELY FLUSH EYES WITH PLENTY OF LOW-PRESSURE WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. APPLY APPROPRIATE FIRST AID TREATMENT AS NECESSARY. INGESTION: DO NOT FEED ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSIVE VICTIM. DO NOT INDUCE VOMITING. IMMEDIATELY CONTACT PHYSICIAN. DILUTE CONTENTS OF STOMACH USING 3-4 GLASSES MILK OR WATER.

Handling and Disposal

Spill Release Procedures: VENTILATE AREA. USE PROTECTIVE EQUIPMENT. CONTAIN & ABSORB ON ABSORBENT MATERIAL. PLACE IN WASTE DISPOSAL CONTAINER. REMOVE IGNITION SOURCES. FLUSH AREA WITH WATER. SPREAD SAND/GRIT.

Neutralizing Agent: NO DATA PROVIDED BY MANUFACTURER

Waste Disposal Methods: STATE AND LOCAL REQUIREMENTS FOR WASTE DISPOSAL MAY BE MORE RESTRICTIVE OR OTHERWISE DIFFERENT FROM FEDERAL REGULATIONS. CONSULT STATE AND LOCAL REGULATIONS REGARDING THE PROPER DISPOSAL OF THIS MATERIAL.

Handling And Storage Precautions: COMBUSTIBLE. DO NOT USE AROUND SPARKS

OR

FLAMES. BOND CONTAINERS DURING FILLING OR DISCHARGE WHEN PERFORMED AT TEMPERATURES AT OR ABOVE THE PRODUCT FLASH POINT. KEEP CONTAINERS CLOSED WHEN

NOT IN USE. STORE IN COOL VENTILATED LOCATION. STORE AWAY FROM OXIDIZERS.

Other Precautions: WATER CONTAMINATED WITH THIS PRODUCT MAY BE SENT TO A SANITARY SEWER TREATMENT FACILITY, I/A/W ANY LOCAL AGREEMENT, A PERMITTED WASTE TREATMENT FACILITY OR DISCHARGED UNDER A PERMIT. PRODUCT AS IS-INCINERATE OR LAND DISPOSE IN AN APPROVED LANDFILL.

=====
Fire and Explosion Hazard Information
=====

Flash Point Method: PMCC

Flash Point: =73.9C, 165.F

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE OR FOAM--AVOID WATER IF POSSIBLE.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (FULL FACE-PIECE TYPE).

Unusual Fire/Explosion Hazard: COMBUSTIBLE LIQUID. NA1993; EMERGENCY RESPONSE GUIDE #128.

=====
Control Measures
=====

Respiratory Protection: USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS. IF AIR-PURIFYING RESPIRATOR USE IS APPROPRIATE, USE A RESPIRATOR WITH ORGANIC VAPOR CARTRIDGES AND DUST/MIST PREFILTERS. A RESPIRATORY PROGRAM IAW 29 CFR 1910.134 & Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT.

Ventilation: ADEQUATE VENTILATION TO MAINTAIN AIR CONTAMINANTS BELOW EXPOSURE LIMITS.

Protective Gloves: NEOPRENE GLOVES-WASH OFF AFTER EACH USE. REPLACE AS NECESSARY.

Eye Protection: SPLASH PROOF CHEMICAL GOGGLES.

Other Protective Equipment: NO DATA PROVIDED BY MANUFACTURER.

Work Hygienic Practices: NO DATA PROVIDED BY MANUFACTURER.

Supplemental Safety and Health: NO DATA PROVIDED BY MANUFACTURER.
=====

=====

Physical/Chemical Properties

=====

HCC: V4

Melt/Freeze Pt: =-51.1C, -60.F

Vapor Pres: <5.0

Vapor Density: >1.00

Spec Gravity: 0.9

PH: 6.0 (APPROX.)

Viscosity: 18

Appearance and Odor: AMBER TO BROWN LIQUID; STRONG ODOR.

=====

Reactivity Data

=====

Stability Indicator: YES

Stability Condition To Avoid: STABLE UNDER NORMAL STORAGE C
ONDITIONS.

Materials To Avoid: MAY REACT WITH STRONG OXIDIZERS.

Hazardous Decomposition Products: THERMAL DECOMPOSITION (DESTRUCTIVE FIRES)
YIELDS ELEMENTAL OXIDES.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

=====

Toxicological Information

=====

Toxicological Information: ORAL LD50 RAT: >2,000 MG/KG (ESTIMATED VALUE).

DERMAL LD50 RABBIT: >
>2,000 MG/KG (ESTIMATED VALUE).

=====

Ecological Information

=====

Ecological: DAPHNIA MAGNA 48 HOUR STATIC ACUTE BIOASSAY. THE PROPERTIES OF THIS
PRODUCT CAUSED PHYSICAL STRESS TO THE ORGANISMS IN THE LOWEST CONCENTRATIONS
TESTED. LC50: 28.3 MG/L 0% MORTALITY: 6.3 MG/L. FATHE AD MINNOW 96 HOUR
STATIC ACUTE BIOASSAY. LC50: 7.7 MG/L NO EFFECT LEVEL: 6.3 MG/L.

BIODEGRADATION: NO DATA AVA
ILABLE.

=====

MSDS Transport Information

=====

Transport Information: COMBUSTIBLE LIQUID, NA1993, DOT EMERGENCY RESPONSE GUIDE
#: 128.

=====

Regulatory Information

=====

Sara Title III Information: SARA SECTION 312 HAZARD CLASS: IMMEDIATE (ACUTE);
DELAYED (CHRONIC); FIRE. SARA SECTION 313 CHE

MICALS: CAS# 91-20-3,
NAPHTHALENE, 6.0-10.0%.

Federal Regulatory Information: ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY. CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ): 148 GALLONS DUE TO NAPHTHALENE; TREAT AS OIL SPILL.

State Regulatory Information: CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT: NO REGULATED CONSTITUENT PRESENT AT OSHA THRESHOLDS. MICHIGAN REGULATORY INFORMATION: CAS# 91-20-3, NAPHTHALENE.

=====

=====

Other Information

=====

Other Information: NFPA/: HEALTH-2 (MODERATE HAZARD), FIRE-2 (MODERATE HAZARD), REACTIVITY-0 (MINIMAL HAZARD), SPECIAL-NO SPECIAL HAZARD, PROTECTIVE EQUIPMENT-B (GOGGLES, GLOVES).

=====

Transportation Information

=====

Responsible Party Code: 1CWF7

Trans ID NO: 155318

Prod

Product ID: SPEC-AID 8Q462

MSDS Prepared Date: 07/29/1998

Review Date: 11/09/2000

MFN: 1

Net Unit Weight: 40 LBS

Multiple KIT Number: 0

Unit Of Issue: DR

Additional Data: MSDS LISTS COMBUSTIBLE LIQUID AS US DOT SHIPPING NAME; HOWEVER, THIS PRODUCT IS ONLY 5 GALLONS. THAT SHIPPING NAME WOULD ONLY BE USED IF CONTAINER WAS GREATER THAN 119 GALLONS.

=====

Detail DOT Information

=====

DOT PSN Code: Z

ZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====

Detail IMO Information

=====

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

=====

Detail IATA Information

=====

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY

THIS MODE OF TRANSPORTATION

=====
Detail AFI Information
=====

AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

=====
HAZCOM Label
=====

Product ID: SPEC-AID 8Q462

Cage: 1CWF7

Company Name: BETZDEARBORN INC

Street: 4636 SOMERTON ROAD

City: TREVOSSE PA

Zipcode

: 19053

Health Emergency Phone: 800-877-1940(USA)

Label Required IND: Y

Date Of Label Review: 11/09/2000

Status Code: A

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: DANGER

Respiratory Protection IND: NO

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: Severe

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: PROLONGED OR REPEATED EXPOSURES MAY CAUSE CNS DEPRESSION AND/OR DEFATTING-TYPE DERMATITIS. SKIN: MAY CAUSE

MODERATE IRRITATION TO THE SKIN. MAY CAUSE DERMATITIS. EYE: SEVERE IRRITANT TO THE EYES. RESPIRATORY: VAPORS, GASES, MISTS OR AEROSOLS MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY TRACT. PROLONGED EXPOSURE MAY CAUSE DIZZINESS AND HEADACHE. INGESTION: MAY CAUSE ABDOMINAL PAIN, NAUSEA, VOMITING, DIZZINESS, LETHARGY AND BLURRING OF VISION. CARDIAC FAILURE AND PULMONARY EDEMA MAY DEVELOP. LARGE DOSES CAUSE SEVERE KIDNEY DAMAGE. MAY BE FATAL. ASPIRATION MAY CAUSE LUNG INJURY OR DEAT

H.

=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instr

umentality of the United

States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.