

BETZ DEARBORN DIV OF HERCULES- -- AES 510

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MSDS Safety Information
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FSC: 6850
NIIN: 01-370-4209
MSDS Date: 10/09/1997
MSDS Num: CLFPM
Product ID: AES 510
MFN: 01
Kit Part: Y
Responsible Party
Cage: ONTW1
Name: BETZ DEARBORN DIV OF HERCULES- DBA ARGO SCIENTIFIC INC
Address: 185 BOSSTICK
BLVD
City: SAN MARCOS CA 92069
Info Phone Number: 619-727-2620
Emergency Phone Number: (800)424-9300
Chemtrec IND/Phone: (800)424-9300
Proprietary Ind: Y
Published: Y

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Contractor Summary
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Cage: 0BGE6
Name: BENTLY PACKING CORP
Address: 3031WMILL RD
City: MILWAUKEE WI 53209
Phone: UNKNOWN
Cage: ONTW1
Name: BETZ DEARBORN DIV OF HERCULES- DBA ARGO SCIENTIFIC INC
Address: 185 BOSSTICK BLVD
City: SAN MARCOS CA 92069
Phone: 619-727-2620

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Item Description Information
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Item Manager: S9G
Item Name: CLEANING COMPOUND,SOLVENT
Specification Number: UNKNOWN
Unit of Issue: DR
Quantitative Expression: 00000000025LB
UI Container Qty: 1
Type of Container: CONTAINER

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Ingredients
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Name: *** PROPRIETARY ***

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Health Hazards Data

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LD50 LC50 Mixture: NO DATA GIVEN FOR PRODUCT AS A WHOLE

Route Of Entry Inds - Inhalation: YES

Skin: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: INHALATION: MAY IRRITATE THE NOSE, THROAT, AND OTHER TISSUES OF THE RESPIRATORY SYSTEM. SKIN OR EYES: DEPENDING ON THE DURATION

AND CONCENTRATION OF OVER-EXPOSURE, EYE CONTACT CAN CAUSE SEVERE IRRITATION AND CORROSIVE DAMAGE. DEPENDING ON THE DURATION AND CONCENTRATION OF OVER-EXPOSURE, SKIN CONTACT CAN CAUSE REDDENING, DISCOMFORT, AND IRRITATION. PROLONGED OR REPEATED OVER-EXPOSURE TO THIS PRODUCT MAY CAUSE DERMATITIS (DRY, RED SKIN: SKIN ABSORPTION: SKIN ABSORPTION IS NOT KNOWN TO BE A SIGNIFICANT ROUTE OF EXPOSURE FOR ANY COMPONENT OF THIS PRODUCT. (SEE OTHER INFORMATION)

Explanation Of Carcinogenicity: THE COMPONENTS OF THIS PRODUCT ARE NOT FOUND ON THE FOLLOWING LISTS: FEDERAL OSHA Z LIST, NTP, IARC, AND CAL/OSHA, AND THEREFORE ARE NEITHER CONSIDERED TO BE NOR SUSPECTED TO BE CANCER-CAUSING AGENTS BY THESE AGENCIES.

Signs And Symptoms Of Overexposure: ACUTE: IF THIS PRODUCT IS INHALED, IT MAY IRRITATE THE NOSE, THROAT, AND OTHER TISSUES OF THE RESPIRATORY SYSTEM. EYE CONTACT CAN CAUSE SEVERE IRRITATION AND CORROSIVE DAMAGE. SKIN: CONTACT CAN CAUSE REDDENING, DISCOMFORT AND IRRITATION. INGESTION OF LARGE AMOUNTS OF THIS PRODUCT (> 10 G) MAY CAUSE STOMACH PAIN AND VOMITING. CHRONIC: PROLONGED OR REPEATED OVER-EXPOSURE TO THIS PRODUCT MAY CAUSE DERMATITIS (DRY, RED SKIN).

Medical Cond Aggravated By Exposure: DERMATITIS, OTHER SKIN DISORDERS, AND RESPIRATORY CONDITIONS MAY BE AGGRAVATED BY OVER-EXPOSURE TO THIS PRODUCT.

First Aid: SKIN: IMMEDIATELY DECONTAMINATE WITH RUNNING WATER. MINIMUM FLUSHING IS FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING. SEEK IMMEDIATE MEDICAL

ATTENTION IF ANY SYMPTOMS DEVELOP. EYE: OPEN VICTIM'S EYES WHILE UNDER GENTLY RUNNING WATER. HAVE VICTIM "ROLL" EYES. MINIMUM FLUSHING IS FOR 15 MINUTES. VICTIM MUST SEEK MEDICAL ATTENTION. INHALATION: REMOVE VICTIM TO FRESH AIR. IF NECESSARY, USE ARTIFICIAL RESPIRATION. INGESTION: CALL PHYSICIAN OR POISON CONTROL CENTER. DO NOT INDUCE VOMITING! DRINK MILK, EGG WHITES OR LOTS OF WATER. NOTHING BY MOUTH IF UNCONSCIOUS.

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Handling and Disposal

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Spill Release Procedures: UNCONTROLLED RELEASES SHOULD BE RESPONDED TO BY TRAINED PERSONNEL USING PRE-PLANNED PROCEDURES. PROPER PROTECTIVE EQUIPMENT SHOULD BE USED. SWEEP-UP SPILLED POWDER CAREFULLY, AVOIDING THE GENERATION OF AIRBORNE DUST. DECONTAMINATE THE AREA THOROUGHLY. PLACE ALL SPILL RESIDUE IN A SUITABLE CONTAINER AND SEAL. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Neutra

lizing Agent: NO DATA PROVIDED BY MANUFACTURER

Waste Disposal Methods: WASTE DISPOSAL MUST BE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE & LOCAL REGULATIONS. THIS PRODUCT, IF UNALTERED BY USE, MAY BE DISPOSED OF BY TREATMENT AT A PERMITTED FACILITY OR AS ADVISED BY YOUR LOCAL WASTE REGULATORY AUTHORITY. SPILL & LEAK RESIDUE MAY MEET DEFINITION OF CHARACTERISTIC WASTE UNDER RCRA.

Handling And Storage Precautions: STORE THIS PRODUCT IN A COOL, DRY LOCATION, AWAY FROM DIRECT SUNLIGHT, SOURCES OF INTENSE HEAT. STORE AWAY FROM

INCOMPATIBLE CHEMICALS. MATERIAL SHOULD BE STORED IN SECONDARY CONTAINERS OR IN A VENTED AREA, AS APPROPRIATE. STORAGE AND USE AREAS SHOULD BE COVERED WITH IMPERVIOUS MATERIALS.

Other Precautions: *FIRST AID CONT: NEVER INDUCE VOMITING OR GIVE DILUENTS (MILK OR WATER) TO SOMEONE WHO IS UNCONSCIOUS, HAVING CONVULSIONS, OR UNABLE TO SWALLOW. VICTIMS OF CHEMICAL EXPOSURE MUST BE TAKEN FOR MEDICAL ATTENTION. RESCUERS SHOULD BE TAKEN FOR MEDICAL ATTENTION IF NECESSARY.

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Fire and Explosion Hazard Information

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Flash Point Text: NOT FLAMMABLE

Lower Limits: NA

Upper Limits: NA

Extinguishing Media: THIS MATERIAL WILL NOT CONTRIBUTE TO THE INTENSITY OF A FIRE. USE EXTINGUISHING MATERIAL SUITABLE TO THE SURROUNDING FIRE.

Fire Fighting Procedures: INCIDENT FIRE RESPONDERS SHOULD WEAR EYE PROTECTION. STRUCTURAL FIREFIGHTERS

MUST WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK TO PERSONNEL. IF POSSIBLE, PREVENT RUNOFF WATER FROM ENTERING SEWAGE DRAINS, BODIES OF WATER, OR OTHER

Unusual Fire/Explosion Hazard: THIS MATERIAL IS MILDLY BASIC AND PRESENTS A SLIGHT CONTACT HAZARD TO FIREFIGHTERS. WHEN INVOLVED IN A FIRE, THIS MATERIAL MAY DECOMPOSE AND PRODUCE IRRITATING VAPORS AND TOXIC GASES, SUCH AS CARBON DIOXIDE, CARBON MONOXIDE, AND CARBON

ONOXIDE, AND SODIUM, PHOSPHORUS, AND BORON OXIDES.

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Control Measures
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Respiratory Protection: MAINTAIN AIRBORNE CONTAMINAT CONCENTRATIONS BELOW TLV..
IF REAPIRATORY PROTECTION IS NEEDED, USE ONLY PROTECTION AUTHORIZED IN 29 CFR
1910.134 OR APPLICABLE STATE REGULATIONS. USE SUPPLIED AIR RESPRAT ION
PROTECTION DURING RESPONSE PROCEDURES TO NON-INCIDENTAL RELEASES OR IF
OXYGEN
LEVE

LS ARE BELOW 19.5% OR ARE UNKNOWN.

Ventilation: USE WITH ADEQUATE VENTILATION TO ENSURE EXPOSURE LEVELS ARE
MAINTAINED BELOW THE LIMITS PROVIDED. EXHAUST DIRECTLY TO THE OUTSIDE.

Protective Gloves: NATURAL RUBBER, NEOPRENE, OR NITRILE RUBBER.

Eye Protection: SPLASH GOGGLES OR SAFETY GLASSES.

Other Protective Equipment: PRUDENT PRACTICE IS TO ENSURE EYEWASH/SAFETY SHOWER
STATIONS ARE AVAILALE NEAR AREAS WHERE THIS PRODUCT IS USED. USE BODY
PROTECTION APPROPRIATE FOR TASK (E.G. TYVEK SUIT, R
UBBER APRON).

Work Hygienic Practices: DO NOT EAT OR DRINK WHILE HANDLING THIS MATERIAL.
AVOID GENERATING AIRBORNE DUST. WASH THOROUGHLY AFTER HANDLING THIS PRODUCT.

Supplemental Safety and Health: KIT/KIT PART ENABLED SINCE THIS NSN IS/CAN BE A
PART OF A KIT (NSN 6850-01-423-1699 (SERIAL #: ZZZXK), A SUB-ASSEMBLY OF NSN
4610-01-371-1790 (SERIAL #: ZZZXJ)). HCC FOR THIS FOR THIS NSN AS STAND-ALO
NE. HCC FOR KIT IS C1.

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Physical/Chemical Properties
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HCC: B3

B.P. Text: NE

M.P/F.P Text: NE

Vapor Density: NA

Spec Gravity: PRACTICALLY ZERO

PH: 10-11 @3% SOLN

Evaporation Rate & Reference: NA

Solubility in Water: SOLUBLE

Appearance and Odor: ODORLESS WHITE POWDER

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: CONTACT WITH INCOMPATIBLE CHE

MICALS, EXPOSURE TO
ELEVATED TEMPERATURES.

Materials To Avoid: STRONG OXIDIZERS, STRONG BASES, STRONG REDUCERS, STRONG
ACIDS, METALS, METAL NITRATES.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, SODIUM,
PHOSPHORUS, AND BORON OXIDES.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information
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Toxicolog

ical Information: ORGANIC ACID SALT 1: EYE IRRITANCY (RABBIT) = 250

MG/24H SEVERE; SKIN IRRITANCY (RABBIT) = 20 MG/24H MODERATE; LD50 (ORAL,
RAT) = 438 MG/M3; ORGANIC SALT 2: SKIN IRRITANCY (RABBIT) = 500 MG/24H MOD
ERATE; EYE IRRITANCY (RABBIT) = 1900 UG; LD50 (ORAL, MOUSE) = 30 MG/M3.

BORON COMPOUND: TDLO (ORAL, RAT) = 16,750 UG/KG/MALE 30 DAYS, LD50 (UNKNOWN)
= 2.4-2.6 G/KG, LC50 (INHALATION, SPRAGUE-DEWEY RA T) = 1 MG/M3. PHOSPHORUS
COMPOUND 1: LD50 (ORAL, RAT) = 6500 MG/KG.

PHOSPHOROUS COMPOUND 2: LD50 (ORAL,

RAT) = 4000 MG/KG. PHOSPHOROUS COMPOUND 3: LDLO (INTRAVENOUS, RABBIT) = 1580
MG/KG.

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Ecological Information
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Ecological: ENVIRONMENTAL STABILITY: THE COMPONENTS OF THIS PRODUCT WILL
DECOMPOSE UNDER NORMAL ENVIRONMENTAL CONDITIONS. ADDITIONAL ENVIRONMENTAL
DATA ARE AVAILABLE AS FOLLOWS: ORGANIC SALT 2: WATER SOLUBILITY = 103 G/ML.
PHOSPHOROU

S COMPOUND 2: WATER SOLUBILITY = 5 G/100G (20C). 6.7 G/100 ML

(25C). PHOSPHOROUS COMPOUND 3: WATER SOLUBILITY = 8.8 G/100CC. NOT EXPECTED
TO ACCUMULATE IN FOOD CHAIN. EFFECT ON PLANTS & ANIMALS: DUE TO
CORROSIVITY, ANTICIPATED WILL BE HARMFUL TO ANIMAL LIFE. EFFECT ON AQUATIC
LIFE: DUE TO CORROSIVITY, ANTICIPATED TO BE HARMFUL TO AQUATIC LIFE.

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MSDS Transport Information
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Regulatory Information
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Federal Regulatory Information: TSCA INVENTORY STATUS: THE COMPONENTS OF THIS
PRODUCT ARE LISTED ON THE TSCA INVENTORY.

State Regulatory Information: PHOSPHOROUS COMPOUND 2: ALASKA, CALIFORNIA PEL,
ILLINOIS, MASSACHUSETTS, MINNESOTA, NEW JERSEY RTK, RHODE ISLAND. ORGANIC
ACID SALT 1: MASSACHUSETTS, NEW JERSEY RTK, NORTH DAKOTA, PENNSYLVANIA.
PHOSPHOROUS CO

MPOUND 3: MINNESOTA, NEW JERSEY RTK, NORTH DAKOTA,
PENNSYLVANIA. CALIFORNIA PROPOSITION 65: NO COMPONENT OF THIS PRODUCT IS ON
THE CALIFORNIA PROPOSITION 65 LISTS.

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Other Information
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Other Information: HEALTH HAZARD CONT: INGESTION: INGESTION IS NOT ANTICIPATED
TO BE A LIKELY ROUTE OF EXPOSURE TO THIS PRODUCT. IF PRODUCT IS SWALLOWED, IT
MAY IRRITATE THE MOUTH, THROAT, ESOPHAG
US, AND OTHER TISSUES O F THE
DIGESTIVE SYSTEM. INGESTION OF LARGE AMOUNTS OF THIS PRODUCT (>10 G) MAY
CAUSE STOMACH PAIN AND VOMITING. INJECTION: THOUGH NOT ANTICIPATED TO BE A
LIKELY ROUTE OF OCCUPATIONAL EXPOSURE, INJECTI ON OF THIS PRODUCT (VIA
PUNCTURES OR LACERATIONS BY A CONTAMINATED OBJECT) MAY CAUSE LOCAL REDDENING,
TISSUE SWELLING, AND DISCOMFORT IN ADDITION TO THE WOUND.

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Transportation Information
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Responsible Party Cage: 0NTW1
Trans ID NO: 157595
Product ID: AES 510
MSDS Prepared Date: 10/09/1997
Review Date: 06/22/2001
MFN: 1
Net Unit Weight: 25 LBS
Multiple KIT Number: 0
Kit Part IND: Y
Unit Of Issue: DR
Container QTY: 1
Type Of Container: CONTAINER
Additional Data: NOT REGULATED PER MSDS.

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Detail DOT Information
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DOT PSN Code: ZZZ
DOT Prop
er Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information
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IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information
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IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE O

F TRANSPORTATION

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Detail AFI Information
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AFI PSN Code: ZZZ

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

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HAZCOM Label
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Product ID: AES 510

Cage: 0NTW1

Company Name: BETZ DEARBORN DIV OF HERCULES- DBA ARGO SCIENTIFIC INC

Street: 185 BOSSTICK BLVD

City:

SAN MARCOS CA

Zipcode: 92069

Health Emergency Phone: (800)424-9300

Label Required IND: Y

Date Of Label Review: 06/22/2001

Status Code: A

Origination Code: F

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: NO

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: IRRITATING! TARGET ORGANS: SKIN, EYES, RESPIRATORY SYSTEM. IRRITATING IF INHALED OR SWALLOWED. CAUSES SKIN AND EYE IRRITATION.

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