

WALKER D W DBA ARGO SCIENTIFIC -- IPA 411

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

FSC: 6850
NIIN: 01-446-9518
MSDS Date: 12/07/1998
MSDS Num: CJHGL
Product ID: IPA 411
MFN: 02
Responsible Party
Cage: ONTW1
Name: WALKER D W INC DBA ARGO SCIENTIFIC
Address: 185 BOSSTICK BLVD
City: SAN MARCOS CA 92069
Info Phone Number: 619-727-2620
Emergency Phone Number: 619-727-2620

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

Item Manager: S9G
Item Name: CLEANER, MEMBRANE
Specification Number: NONE
Type/Grade/Class: NONE
Unit of Issue: CO
Quantitative Expression: 00000000045LB
UI Container Qty: 0
Type of Container: CONTAINER

=====
Ingredients
=====

Name: *** PROPRIETARY ***

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER
Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: INHALATION OF DUST OR PARTICULATES OF THIS PRODUCT MAY
IRRITATE NOSE, THROAT & RESPI

RATORY SYSTEM. CONTACT WITH SKIN & EYES

MAY CAUSE IRRITATION. SKIN ABSORPTION IS NOT KNOWN TO BE A SIGNIFIGANT ROUTE OF EXPOSURE FOR ANY COMPONENT OF THIS PRODUCT. INGESTION IS NOT EXPECTED TO BE A LIKELY ROUTE OF EXPOSURE. HOWEVER, IF SWALLOWED, IT MAY CAUSE VIOLENT PURGING & INTESTINAL HEMMORRHAGES. CHRONIC: PR OLONGED OR REPEATED SKIN EXPOSURE MAY CAUSE DERMATITIS. CHRONIC INGESTION OF THIS PRODUCT, ESPECIALLY IN LARGE QUANTITIES, MAY CAUSE IRRITATION OF THE DIGESTIVE S

YSTEM AND KIDNEY

DAMAGE.

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

Signs And Symptions Of Overexposure: INHALED-COUGHING, SNEEZING, DIFFICULTY BREATHING. SKIN-REDNESS, DISCOMFORT, DRY SKIN (DERMATITIS). EYES-REDNESS, TEARING, PAIN. INGESTED-STOMACH PAINS, CRAMPS, GASTRITIS, VIOLENT PURGES, INTESTINAL

HE MORRHAGES.

Medical Cond Aggravated By Exposure: PRE-EXISTING DERMATITIS, OTHER SKIN CONDITIONS AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY ANTICIPATED OCCUPATIONAL EXPOSURES TO THIS PRODUCT.

First Aid: SKIN-BRUSH OFF THEN FLUSH WITH RUNNING WATER FOR 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION IF ANY ADVERSE SYMPTOMS OCCUR. EYES-OPEN EYES/LIFT LIDS, FLUSH WITH WATER FOR A MINMUM OF 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. INHALED-REMOVE VICTIM TO FRESH AIR. IF NEEDED, USE ARTIFICIAL RESPIRATION TO SUPPORT VITAL FUNCTIONS. INGESTION-CALL A PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION! DO NOT INDUCE VOMITING UNLESS PROFESSIONAL ADVICE AVAILABLE. VICTIM SHOULD DRINK MILK, EGG WHITES OR LARGE QUANTITIES OF WATER. NEVER INDUCE VOMITING IF UNCONSCIOUS, CONVULSING OR UNABLE TO SWALLOW.

=====

Handling and Disposal

=====

Spill Release Procedure

s: UNCONTROLLED RELEASES SHOULD BE RESPONDED TO BY TRAINED PERSONNEL USING PREPLANNED PROCEDURES. PROPER PROTECTIVE EQUIPMENT SHSOULD BE USED. IN CASE OF SPILL, CLEAR THE AFFECTED AREA AND PROTECT PEOPLE. NON-INCIDENTAL RELEASE: LEVEL-C :TRIPLE GLOVES, CHEMICAL RESISTANT BOOTS & SUIT, HARD HAT AND AN AIR-PURIFYING RESPIRATOR WITH HIGH EFFICIENCY PARTICULATE FILTER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling And Storage Precautions: ALL EMPLOYEES WHI HANDKE THIS PR

PRODUCT SHOULD

BE TRAINED TO HANDLE IT SAFELY. AVOID BREATHING DUSTS. STORE IN A COOL, DRY LOCATION AWAY FROM DIRECT SUNLIGHT, SOURCES OF UNDESIRABLE HEAT, OR FREEZING. KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions: OPEN CONTAINERS SLOWLY ON A STABLE SURFACE. MATERIAL SHOULD BE STORED IN A SECONDARY CONTAINER. AVOID BREATHING DUSTS & PARTICULATES GENERATED BY THIS PRODUCT. EMPTY CONTAINERS MAY CONTAIN RESIDUAL AMOUNTS OF THIS PRODUCT; THEREFORE, EMPTY CONTAINERS SHOULD BE HANDLED WITH CARE.

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

Extinguishing Media: USE MATERIAL SUITABLE TO THE SURROUNDING FIRE. USE WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL, FORM, HALON, OR ANY "ABC" CLASS. CONTAIN RUNOFF TO PREVENT CONTAMINATION WITH ORGANICS.

Fire Fighting Procedures: FIRE RESPONDERS SHOULD WEAR EYE PROTECTION. MOVE CONTAINERS

IF POSSIBLE TO DO SO SAFELY. STRUCTURAL FIRE FIGHTERS SHOULD WEAR SCBA & FULL EQUIPMENT. PREVENT RUNOFF FROM ENTERING STORM DRAINS, BODIES OF WATER OR OTHER ENVIRONMENTALLY SENSITIVE AREAS.

Unusual Fire/Explosion Hazard: WHEN INVOLVED IN A FIRE, MAY DECOMPOSE INTO IRRITATING VAPORS AND CARBON, SODIUM, PHOSPHOROUS AND NITROGEN OXIDES. PRODUCT CAN REACT WITH WATER PRODUCING HEAT. OXYGEN EVOLUTION RESULTING FROM DECOMPOSITION OR REACTION WITH WATER MAY BURST SEALED CONTAINERS AND

ACCELERATE BURNING RATES OF COMBUSTIBLE MATERIALS.

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

Respiratory Protection: NONE NEEDED UNDER NORMAL CIRCUMSTANCES OF USE. MAINTAIN AIRBORNE CONCENTRATIONS BELOW TLV(S). IF RESPIRATORY PROTECTION NEEDED, USE ONLY THAT AUTHORIZED IN 29 CFR 1910.134 OR APPLICABLE STATE REGULATIONS. USE SUPPLIED AIR RESPIRATION PROTECTION DURING RESPONSE PROCEDURES TO NON-INCIDENTAL RELEASES OR IF OXYGEN LEVELS ARE BELOW 19.5% OR ARE UNKNOWN.

Ventilation: USE WITH ADEQUATE VENTILATION TO ENSURE EXPOSURE LEVELS ARE MAINTAINED BELOW THE TLV(S).

Protective Gloves: WEAR BUTYL RUBBER, NATURAL RUBBER, OR NEOPRENE GLOVES

Eye Protection: SPLASH GOGGLES OR SAFETY GLASSES

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

Work Hygiene

c Practices: AS WITH ALL CHEMICALS, AVOID GETTING THIS PRODUCT ON YOU OR IN YOU. WASH THOROUGHLY AFTER HANDLING THIS PRODUCT. DO NOT EAT OR DRINK WHILE HANDLING THIS PRODUCT. USE IN A WELL-VENTILATED LOCATION. Supplemental Safety and Health: MAKE CERTAIN THAT APPLICATION EQUIPMENT IS LOCKED AND TAGGED OUT SAFELY DURING MAINTENANCE OF CONTAMINATED EQUIPMENT. COLLECT ALL RINSATES AND DISPOSE ACCORDING TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND PROCEDURES.

=====

=====

Physical/Chemical Properties

=====

HCC: N1
M.P/F.P Text: NOT ESTABLISHED
Spec Gravity: NOT ESTABLISHED
PH: 10.5 ~ 0.5 (2%)
Solubility in Water: SOLUBLE
Appearance and Odor: THIS PRODUCT IS A WHITE, ODORLESS POWDER.

=====

Reactivity Data

=====

Stability Indicator: YES
Stability Condition To Avoid: CONTACT WITH INCOMPATIBLE CHEMICALS, EXTREME HEAT, MOISTURE.
Materials To Avoid: STRONG OXIDIZERS, STRONG ACIDS, AND ORGANIC MATERIALS, FINELY POWDERED METALS.
Hazardous Decomposition Products: CARBON, SODIUM, PHOSPHORUS, AND NITROGEN OXIDES.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: CONTACT WITH INCOMPATIBLE CHEMICALS, EXTREME HEAT, MOISTURE.

=====

Toxicological Information

=====

=====

Toxicological Information: PARTIAL LISTING OF TOXICOLOGICAL DATA FROM MFR MSDS: CHELATING AGENT: LD50 (INTRAPERITONEAL, RAT)=397 MG/KG; PERCARBONATE COMPOUND: LD50 (ORAL, RAT): 1034 MG/KG; INORGANIC SODIUM COMPOUND: LD50 (ORAL, RAT): 8500 MG/KG. SENSITIZATION: NO COMPONENT OF THIS PRODUCT IS KNOWN TO BE A SENSITIZER WITH REPEATED OR PROLONGED USE. MUTAGENICITY: THIS PRODUCT IS NOT REPORTED TO PRODCUE MUTAGENIC EFFECTS IN HU MANS. ANIMAL MUTATION DATA ARE AVAILABLE FOR T

HE CHELATING AGENT. EMBRYOTOXICITY: THIS PRODUCT IS NOT REPORTED TO PRODUCE EMBRYOTOXIC EFFECTS IN HUMANS. TERATOGENICITY: THIS PRODUCT IS NOT REPORTED TO CAUSE TERATOGENIC EFFECTS IN HUMANS.

=====
Ecological Information
=====

Ecological: ENVIRONMENTAL STABILITY: CURRENTLY THERE ARE NO ADVERSE ENVIRONMENTAL EFFECTS WHICH HAVE BEEN REPORTED FOR THIS PRODUCT. EFFECT ON MATERIAL & PLAN
TS: IF LARGE QUANTITIES OF THIS PRODUCT ARE RELEASED INTO THE ENVIRONMENT, ADVERSE EFFECTS ON PLANT & ANIMAL LIFE MAY OCCUR. EFFECT OF CHEMICAL ON AQUATIC LIFE: IF LARGE QUANTITIES OF THIS PRODUCT ARE RELEASED INTO THE ENVIRONMENT, ADVERSE EFFECTS ON AQUATIC LIFE MAY OCCUR. AQUATIC DATA: AQUATIC TOXICITY (CHELATING AGENT): (IMMERSION, CAT FISH): 129 PPM/96 HRS/FRESH WATER; PERCARBONATE COMPOUND: LC50 (PIMPHALES PROMELAS)=70.7 MG/L/96 HRS.

=====
MSDS Transport Information
=====

Transport Information: THIS MATERIAL IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION. TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: THIS MATERIAL IS NOT CONSIDERED AS DANGEROUS GOODS.

=====
Regulatory Information
=====

Federal Regulatory Information: TSCA STATUS: THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. US CERCLA REPORTABLE QUANTITY: CHELATING AGENT=5000 LBS; INORGANIC SODIUM COMPOUND=5000 LB. OTHER FEDERAL REGULATIONS: NOT APPLICABLE.
State Regulatory Information: DLA- STAFF CAN ONLY FIT IN THE STATE REGS THAT DO APPLY: ILLINOIS TOXIC SUBSTANCE LIST-CHELATING AGENT. NEW JERSEY RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: CHELATING AGENT, PERCARBONATE COMPOUND, INORGANIC SODIUM COMPOUND; NORTH DAKOTA LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: CHELATING AGENT; PENNSYLVANIA HAZARDOUS SUBSTANCE LIST: CHELATING AGENT, INORGANIC SODIUM COMPOUND. CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): NO COMPONENT OF THIS PRODUCT IS ON THE CALIFORNIA PROPOSITION 65 LISTS.

=====
Other Information
=====

Other Information: NONE SPECIFIED BY MANUFACTURER.
====

=====
Transportation Information
=====

Responsible Party Cage: ONTW1

Trans ID NO: 145707

Product ID: IPA 411

MSDS Prepared Date: 12/07/1998

Review Date: 07/07/1999

MFN: 2

Net Unit Weight: 45 LBS

Multiple KIT Number: 0

Unit Of Issue: CO

Container QTY: 0

Type Of Container: CONTAINER

Additional Data: NOT REGULATED FOR TRANSPORTATION PER MFR MSDS.
=====

D

Detail DOT Information
=====

DOT PSN Code: ZZZ

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: IPA 411

Cage: 0

NTW1

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

Street: 185 BOSSTICK BLVD

City: SAN MARCOS CA

Zipcode: 92069

Health Emergency Phone: 619-727-2620

Label Required IND: Y

Date Of Label Review: 07/07/1999

Status Code: A

Year Procured: 1999

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard

And Precautions: TARGET ORGANS: SKIN, EYES, RESPIRATORY & GI TRACTS, KIDNEYS .INHALATION OF DUST OR PARTICULATES OF THIS PRODUCT MAY IRRITATE NOSE, THROAT & RESPIRATORY SYSTEM. CONTACT WITH SKIN & EYES MAY CAUSE IRRITATION. SKIN ABSORPTION IS NOT KNOWN TO BE A SIGNIFIGANT ROUTE OF EXPOSURE FOR ANY COMPONENT OF THIS PRODUCT. INGESTION IS NOT EXPECTED TO BE A LIKELY ROUTE OF EXPOSURE. HOWEVER, IF SWALLOWED, IT MAY CAUSE VIOLENT PURGING & INTESTINAL HEMMORRHAGES. CHRO

NIC: PROLONGED OR REPEATED SKIN

EXPOSURE MAY CAUSE DERMATITIS. CHRONIC INGESTION OF THIS PRODUCT, ESPECIALLY IN LARGE QUANTITIES, MAY CAUSE IRRITATION OF THE DIGESTIVE SYSTEM AND KIDNEY DAMAGE.

=====
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 instrumentality 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

y of this information to their
particular situation regardless of similarity to a corresponding Department
of Defense or other government situation.