

QUANTIC INDUSTRIES INC (FORMERLY WHITTAKER ORDAN) -- 3215-2 PRESSURE CARTRIDGE ASSEMBLY -- 1377-01-212-8583

===== Product Identification =====

Product ID:3215-2 PRESSURE CARTRIDGE ASSEMBLY

MSDS Date:11/02/1992

FSC:1377

NIIN:01-212-8583

MSDS Number: BYRHL

=== Responsible Party ===

Company Name:QUANTIC INDUSTRIES INC (FORMERLY WHITTAKER ORDAN)

Address:2751 SAN JUAN ROAD

Box:148

City:HOLLISTER

State:CA

Country:US

ZIP:95023

Info Phone Num:408-637-5851

Emergency Phone Num:408-637-5851

Preparer's Name:JIM HART

CAGE:24576

=== Contractor Identification ===

Company Name:QUANTIC INDUSTRIES INC

Address:990 COMMERCIAL ST

Box:148

City:SAN CARLOS

State:CA

Country:US

ZIP:94070

Phone:415-595-1100;408-263-5210

CAGE:24576

Company Name:WHITTAKER ORDANCE INC SUB OF WHITTAKER CORP

Address:2751 SAN JUAN RD

Box:148

City:HOLLISTER

State:CA

Country:US

ZIP:95024

CAGE:10640

===== Composition/Information =====

on on Ingredients =====

Ingred Name:ZIRCONIUM
CAS:7440-67-7
RTECS #:ZH7070000
OSHA PEL:5 MG/CUM
ACGIH TLV:5 MG/CUM

Ingred Name:AMMONIUM PERCHLORATE
CAS:7790-98-9
RTECS #:SC7520000

Ingred Name:AMMONIUM DICHROMATE (SUFFICIENT HUMAN CARCINOGEN BY IARC,
GROUP 1) *95-3*
CAS:7789-09-5
RTECS #:HX7650000
OSHA PEL:0.1 MG/CUM
ACGIH TLV:0.05 MG/CUM
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:BARIUM CHROMATE(VI) (CONFIRMED HUMAN CARCINOGEN BY ACGIH,
IARC; CONFIRMED CARCINOGEN BY
NTP - IARC GROUP 1) *95-3*
CAS:10294-40-3
RTECS #:CQ8760000
OSHA PEL:0.1 MG(CR)/M3
ACGIH TLV:0.05 MG(CR)/M3

Ingred Name:WET NITROCELLULOSE, NITROCELLULOSE, NITRATE CELLULOSE
CAS:9004-70-0
RTECS #:QW0975200

Ingred Name:NITROGLYCERINE, NITRIN, NITROL
CAS:55-63-0
RTECS #:QX2100000
Other REC Limits:0.05 PPM
OSHA PEL:2 MG/CUM (SKIN)
ACGIH TLV:0.46 MG/CUM
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin

:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHALATION OF COMBUSTION PRODUCTS
COULD IRRITATE RESPIRATORY SYSTEM. CONTACT OF SKIN/EYES MAY CAUSE
IRRITATION.

Explanation of Carcinogenicity:SEE INGREDIENTS.

Effects of Overexposure:IRRITATION

Medical Cond Aggravated by Exposure:EXISTING RESPIRATORY CONDITIONS

=====
First Aid Measures
=====

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE FI
RST AID APPROPRIATE
TO INJURY. OBTAIN MEDICAL ATTENTION IN ALL CASES.

=====
Fire Fighting Measures
=====

Extinguishing Media:ORDINANCE DEVICES ARE NOT EXTINGUISHABLE. UTILIZE
MEDIA APPROPRIATE FOR SURROUNDING FIRE CONDITIONS IF SAFE.
Fire Fighting Procedures:IF IT REACHES CARGO, DON'T FIGHT FIRE.
EVACUATE & MOVE 1500 FEET IN ALL DIRECTIONS. TRUCK/EQUIPMENT FIRES
PREVENT FROM REACHING CARGO W/WATER/CO2/DRY CHEMICAL.

Unusual Fire/Explosion Hazard

:INITIATION OF UNIT MAY RESULT IN SOME
FRAGMENTATION W/RELEASE OF SMOKE, FUMES & TOXIC GASES. MAY BE
ACTIVATED BY FIRE INSURROUNDING PACKAGING/COMBUSTIBLES.(SUPP

=====
Accidental Release Measures
=====

Spill Release Procedures:IF UNIT BECOMES DAMAGED SO AS TO EXPOSE
MATERIAL, CONSULT W/WHITTAKER ORDINANCE ENGINEERS FOR GUIDANCE.

=====
Handling and Storage
=====

Handling and Storage Precautions:HANDLE, STORE & TRANSPOR
T AS CLASS C

EXPLOSIVE. DON'T STORE W/HIGH EXPLOSIVES. KEEP AWAY FROM FIRE.
AUTHORIZE HANDLING BY TRAINED, QUALIFIED PERSONNEL

Other Precautions:EXPOSURE OF PERSONNEL TO IGNITION OF THIS UNIT MAY
RESULT IN PHYSICAL INJURY. AVOID BREATHING/INGESTING PRODUCTS OF
COMBUSTION. KEEP UNIT SHUNTED UNTIL CONNECTION TO CIRCUITRY. STORE
AS COMPATIBILTY G ROUP: S. DON'T STORE W/HIGH EXPLOSIVES.

=====
Exposure Controls/Personal Protection
=====

Respiratory Protection:U

USE A NIOSH APPROVED ORGANIC VAPOR, ACID GAS CARTRIDGE RESPIRATOR W/DUST FILTERS IF EXPOSED TO COMBUSTION PRODUCTS. IN EMERGENCY FIRE SITUATIONS/WHEN COMBUSTION PRODUCTS FROM LARGE NOS OF UNITS ARE INVOLVED, USE SCBA & FULL FACE PROTECTION.

Ventilation:LOCAL EXHAUST: TO OUTSIDE ATMOSPHERE

Eye Protection:SAFETY GLASSES (ANSI-Z87 STD)

Other Protective Equipment:FLAME RETARDANT, COTTON CLOTHING, CONDUCTIVE FOOTWEAR/OTHER PERSONNEL GROUNDING.(SEE SUPP)

Supplemental Safety and Health

Information

FIRE HAZARDS CONT'D: CLASS C EXPLOSIVE. TOTAL NET EXPLOSIVE WEIGHT: 195 MG/UNIT. AUTOIGNITION TEMP: MUST W/STAND 275F (70 MINS) W/NO FIRE. KEEP AWAY FROM FIRE. NEVER ATTEMPT TO DISASSEMBLE, MACHINE/OTHERWISE MODIFY UNITS/PHYSICAL INJURY HAZARD MAY RESULT. PROTECTIVE EQUIP CONT'D: OPERATIONAL SHIELDING & HEARING PROTECT

===== Physical/Chemical Properties =====

Appearance and Odor:MANUFACTURED ARTICLE-ELECTROEXPLOSIVE DEVICE, CLASS C

=====

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

FLAMMABLE LIQUIDS, STRONG ACIDS/BASES

Stability Condition to Avoid:FLAME, HIGH TEMPERATURE, ELECTROSTATIC DISCHARGE, IMPACT, ELECTRICAL CURRENT, RF ENERGY & OTHER IGNITION SOURCES

Hazardous Decomposition Products:BY IGNITION: OXIDES OF CARBON, NITROGEN, ZIRCONIUM, CHROMIUM, BARIUM, HYDROCHLORIC ACID

===== Disposal Considerations =====

Waste Disposal

Methods:UNIT MAY ONLY BE DISPOSED OF IN ACCORDANCE

W/LOCAL, STATE & FEDERAL REGULATIONS, AFTER COMPLETE FUNCTIONING BY TEST-FIRING/THERMAL TREATMENT IN AN APPROVED, PERMITTED FACILITY. CARTRIDGES, POWER DEVICE UN 0323.

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 this information to be

accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.