

QUANTIC INDUSTRIES INC (FORMERLY WHITTAKER ORDANAN) -- 2504-13 EXPLOSIVE BOLT --  
1377-00-178-9481

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

Product ID:2504-13 EXPLOSIVE BOLT

MSDS Date:04/16/1993

FSC:1377

NIIN:00-178-9481

MSDS Number: BYNXV

=== Responsible Party ===

Company Name:QUANTIC INDUSTRIES INC (FORMERLY WHITTAKER ORDANAN)

Address:2751 SAN JUAN ROAD

Box:148

City:HOLLISTER

State:CA

ZIP:95023

Country:U

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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

ZIP:94070

Country:US

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

ZIP:95024

Country:US

CAGE:10640

===== Composition/Information on Ingredients =====

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Ingred Name:LEAD STYPHNATE  
CAS:15245-44-0

Ingred Name:LEAD AZIDE  
CAS:13424-46-9  
RTECS #:OF8650000

Ingred Name:PENTAERYTHRITOL TETRANITRATE  
CAS:78-11-5  
RTECS #:RZ6200000

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

Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: MAY IRRITATE RESPIRATORY  
SYSTEM. EYES: IRRITATION. OVEREXPOSURE TO LEAD MAY LEAD TO ADVERSE  
AFFECTS ON BLOOD FORMING, URINARY, NERVOUS & REPRODUCTIVE SYSTEMS &  
EMBRYO TOXIC EFFECTS.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:SLEEPLESSNESS, APPETITE LOSS, ANEMIA, FATIGUE,  
IRRITATION.

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

First Aid:FOLLOW APPROPRIATE LOCAL EMERGENCY REACTION PLANS. GIVE FIRST  
AID APPROPRIATE TO INJURY. WARNING: EXPOSURE OF PERSONNEL TO  
IGNITION OF THIS UNIT MAY RESULT IN PHYSICAL INJURY. AVOID  
BREATH  
ING/INGESTIN G PRODUCTS OF COMBUSTION. INHALATION: REMOVE TO  
FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Extinguishing Media:UTILIZE MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:EVACUATE FROM IMMEDIATE AREA. DON'T FIGHT  
CARGO FIRE. EVACUATE 1500 FT IN ALL DIRECTIONS. FOR TRUCK FIRES  
PREVENT FROM REACHING CARGO W/CO2/WATER/DRY CHEMICAL.  
Unusual Fire/Explosion Hazard:AUTOIGNITION TEMP: 265F

. DETONATION OF  
UNIT WILL CREATE SOME FRAGMENTATION CAPABLE OF CAUSING SERIOUS  
INJURY/DEATH.

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

Spill Release Procedures:IF UNIT BECOMES DAMAGED, CONSULT QUANTIC AT  
408-637-5851.

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

Handling and Storage Precautions:DON'T STORE W/FLAMMABLE LIQUIDS,  
STRONG ACIDS/BASES.

Other Precautions:KEEP UNIT SHUNTED UNTIL CONNECTION TO CIRCUITRY.  
NEVER ATTEM  
PT TO DISASSEMBLE, MACHINE/OTHERWISE MODIFY UNITS.  
PHYSICAL INJURY HAZARD MAY RESULT.

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

Respiratory Protection:TEST FIRE UNITS ONLY IN LOCATION ISOLATED FROM  
PERSONNEL & VENTED TO OUTSIDE WORK AREA. USE A NIOSH APPROVED  
ORGANIC VAPOR, ACID GAS CARTRIDGE RESPIRATOR W/DUST FILTERS.  
EMERGENCY SITUATIONS: USE SCBA & FULL FACE PROTECTION.

Ventilation:LOCAL EXHAUST: TO OUTSIDE ATMOSPHERE.

Eye Protection:SAFETY GLASSES

Other Protective Equipment:FLAME RETARDANT/COTTON CLOTHING/CONDUCTIVE  
FOOTWEAR/OPERATIONAL SHIELDING & HEARING PROTECTION.

Supplemental Safety and Health

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

Appearance and Odor:ELECTROSTATIC DEVICE

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

Stability Indicator/Materials to Avoid:YES  
FLAMMABLE LIQUIDS, STRONG ACIDS/BASES

Stability Condition to Avoid:FLAME, HIGH TEMP, ELECTROSTATIC DISCHARGE,  
IM

PACT, ELECTRICAL CURRENT/RADIO FREQUENCY ENERGY  
Hazardous Decomposition Products:UPON IGNITION: OXIDES OF NITROGEN, CO,  
CO2 & LEAD. TOXIC SMOKE, FUMES & GASES.

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

Waste Disposal Methods:UNITS MAY ONLY BE DISPOSED OF IAW/FEDERAL, STATE  
& LOCAL REGULATIONS, AFTER COMPLETE FUNCTIONING BY TEST-FIRING  
&/THERMAL TREATMENT IN APPROVED, PERMITTED FACILITY. CLASS C  
EXPLOSIVE. UN: 0173. DISPOS E OF IAW/LOCAL, STATE & FEDERA

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REGULATIONS.

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