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WHITTAKER ORDNANCE -- PRESSURE CARTRIDGE,4181 -- 1377-00-178-8416

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

Product ID:PRESSURE CARTRIDGE,4181

MSDS Date:10/25/1991

FSC:1377

NIIN:00-178-8416

MSDS Number: BPZQN === Responsible Party ===

Company Name: WHITTAKER ORDNANCE

Address:2751 SAN JUAN ROAD

City:HOLLISTER

State:CA ZIP:95023 Country:US

Info Phone Num:408-637-5851

Emergency Phone Num:800-255-3924 (CHEM-T

EL,INC)

Preparer's Name: JIM HART

CAGE:IO940

=== Contractor Identification ===

Company Name: UNITED TECHNOLOGIES INC. SIKORSKY AIRCRAFT DIV.

Address:6900 MAIN STREET

Box:7016

City:STRATFORD

State:CT

ZIP:06601-1381 Country:US

Phone:203-386-3791

CAGE:78286

Company Name: WHITTAKER ORDNANCE

Address:2751 SAN JUAN RD

Box:148

City:HOLLISTER

State:CA ZIP:95023 Country:US

Phone: 408-637-5851

CAGE:IO940

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

Ingred Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH7070000 Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3/10 MG/M3STEL ACGIH TLV:5 MG/M3/10 MG/M3STEL

Ingred Name: AMMONIUM DICHROMATE (SARA III). OSHA PEL FOR CHROMIC ACID & CHROMATES. ACGIH TLV FOR CR(VI) COMPOUNDS.

CAS:7789-09-5

RTECS #:HX7650000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG(CRO3)/M3,CEIL ACGIH TLV:0.05 MG(CR(VI))/M3

EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name: AMMONIUM PERCHLORATE

CAS:7790-98-9

RTECS #:SC7520000

Other REC Limits: NONE RECOMMENDED

Ingre

d Name:BARIUM CHROMATE.OSHA PEL FOR CHROMIC ACID & CHROMATES.ACGIH TLV FOR CR(VI) COMPOUNDS.

CAS:10294-40-3

RTECS #:CQ8760000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1 MG(CRO3)/M3,CEIL ACGIH TLV:0.05 MG(CR(VI))/M3

Ingred Name: CYCLONITE (RDX)

CAS:121-82-4

RTECS #:XY9450000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1.5 MG/M3,SKIN ACGIH TLV:1.5 MG/M3,SKIN

Ingred Name: NITROCELLULOSE

CAS:9004-70-0

RTECS #:QW0970000

Other REC Limits: NONE RECOMMENDED

====== Hazards Identifi

cation ====================================
LD50 LC50 Mixture:NOT KNOWN Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:HAZARDOUS CONSTITUENTS SEALED WITHIN MFR ARTICLE.NO CHEMICAL EXPOSURE UNDER NORMAL HANDLING CONDITIONS EXCEPT WHEN UNIT IS IGNITED.EXPOSURE OF PERSONNEL TO IGNITION OF THIS UNIT MAY RESULT IN PHYSICAL INJURY. Explanation of Carcinogenicity:CR(VI) CMPD:SUFF EVID FOR CARCIN IN
HUMAN S & ANIMALS (IARC,1987).CR & CERTAIN CR CMPD:KNOWN HUMAN CARCINOGEN (SEE SUPP)
Effects of Overexposure:EYES/SKIN/INGESTION/INHALATION:NOT LIKELY ROUTES OF EXPOSURE FOR SEALED HAZARDOUS CONSTITUENTS.INHALATION OF COMBUSTION PRODUCTS COULD IRRITATE RESPIRATORY SYSTEM.CONTACT OF SKIN OR EYES MAY CAUSE IRR ITATION.
Medical Cond Aggravated by Exposure: COMBUSTION PRODUCTS COULD AGGRAVATE EXISTING RESPIRATORY CONDITION.
======================================
First Aid:FOLLOW APPROPRIATE LOCAL EMERGENCY REACTION PLANS.GIVE FIRST AID APPROPRIATE TO INJURY. INHALATION:IF EXPOSED TO COMBUSTION PRODUCTS,REMOVE TO AREA OF FRESH AIR.SEEK MEDICAL ATTENTION IF NECESSARY.
======================================
Flash Point:NOT KNOWN Lower Limits:NOT KNOWN Upper Limits:NOT KNOWN Extinguishing Media:NOT EXTINGUISHABLE.MAY BE ACTIVATED BY FIRE IN SURROUNDING PACKAGING OR COMBUSTIBLES.USE MEDIA APPROPRIATE FO R

(SEE SUP)

Fire Fighting Procedures:ONLY FIGHT DIVISION 4 (CLASS C) FIRE FROM A SAFE FIRE-FIGHTING OPERATIONAL DISTANCE.EVACUATE ALL PERSONNEL FROM IMMEDIATE AREA OF FIRE INVOLVING EXPLOSIVES.

Unusual Fire/Explosion Hazard:MODERATE FIRE HAZARD.INITIATION OF UNIT MAY RESULT IN SOME FRAGMENTATION AS WELL AS RELEASE OF SMOKE,FUMES,& GASES CONSIDERED TOXIC & IRRITATING.

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

Spill Release Procedures:IF UNIT BECOMES

DAMAGED SO AS TO EXPOSE SEALED MATERIAL, CONSULT WITH WHITTAKER ORDNANCE ENGINEERS FOR GUIDANCE. Neutralizing Agent: NOT KNOWN

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

Handling and Storage Precautions:AUTHORIZE HANDLING ONLY BY TRAINED,QUALIFIED PERS.HANDLE,STORE,TRANSPORT AS CLASS C EXPLOSICE.DO NOT STORE WITH HIGH EXPLOSIVES.KEEP AWAY FROM FIRE.

Other Precautions:KEEP UNIT SHUNTED UNTIL CONNECTION TO CIRCUITRY.NEVER ATTEMPT TO DISASSEMBLE,MACHINE OR

MODIFY UNITS OR PHYSICAL INJURY

MAY RESULT. TEST FIRE UNITS ONLY IN LOCATION ISOLATED FROM PERSONNEL & VENTED TO OUTSIDE WORK AREA.

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

Respiratory Protection:IF EXPOSED TO COMBUSTION PRODUCTS,USE A NIOSH APPROVED ORGANIC VAPOR,ACID GAS CARTRIDGE RESPIRATOR WITH DUST FILTERS.IN EMERGENCY FIRE,USE SELF-CONTAINED BREATHING APPARATUS AND FULL FACE PROTECTION I S RECOMMENDED.

Ventilation:LOCAL EXHAUST TO OUTSIDE AT

MOSPHERE.

Eye Protection: SAFETY GLASSES

Other Protective Equipment:FLAME RETARDANT,COTTON CLOTHING.CONDUCTIVE FOOTWEAR OR OTHER PERS GROUNDING RECOMMENDED WHEN HANDLING EXPOSED UNITS.

Work Hygienic Practices:OPERATIONAL SHIELDING & HEARING PROT RECOMMENDED FOR TESTING AS NEEDED.AVOID BREATHING/INGESTION PRODUCTS OF COMBUSTION.

Supplemental Safety and Health

TOTAL NET EXPLOSIVE WEIGHT: 2.05 G/UNIT.EXTING MEDIA: SURROUNDING FIRE CONDITIONS IF SAFE.EXPLAN OF CARCIN: (NTP, 1991). CR(V

I):KNOWN TO

CAUSE CANCER (CAL PROP 65,1987).CERTAIN WATER INSOLUBLE CR(VI) COMPO UNDS:ACGIH A1=KNOWN HUMAN CARCINOGEN (1993).

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

Boiling Pt:B.P. Text:NOT KNOWN

Melt/Freeze Pt:M.P/F.P Text:NOT KNOWN Decomp Temp:Decomp Text:NOT KNOWN

Vapor Pres:NOT KNOWN Vapor Density:NOT KNOWN Spec Gravity:NOT KNOWN

Evaporation Rate & Evaporation R

Solubility in Water: NOT KNOWN

Appearance and Odor:MANUFACTURED ARTICLE.SEALED ELE

CTROEXPLOSIVE DEVICE CONTAINS PRESSED MIXTURES.

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

Stability Indicator/Materials to Avoid:YES
FLAMMABLE LIQUIDS,STRONG ACIDS OR BASES.
Stability Condition to Avoid:FLAME,HIGH TEMP,ELECTROSTATIC
DISCHARGE,IMPACT,ELECTRICAL CURRENT OR RF ENERGY.
Hazardous Decomposition Products:FUMES OR RESIDUES:CARBON
MONOXIDE,CARBON DIOXIDE,NITROGEN OXIDES,CHLORINE,OXIDES OF
ZIRCONIUM,BARIUM,CHROMIUM.

Conditions to Avoid Polymeriz ation: WILL NOT OCCUR.

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

Waste Disposal Methods:UNIT MAY ONLY BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, & LOCAL REGULATIONS, AFTER COMPLETE FUNCTIONING BY TEST-FIRING AND/OR THERMAL TREATMENT IN APPROVED, PERMITTED FACILITY.

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