

WHITTAKER ORDANCE INC SUB OF WHITTAKER CORP -- 4199 PRESSURE CARTRIDGE ASSEMBLY  
-- 1680-01-021-8442

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

Product ID:4199 PRESSURE CARTRIDGE ASSEMBLY

MSDS Date:02/22/1991

FSC:1680

NIIN:01-021-8442

MSDS Number: BPPMT

=== Responsible Party ===

Company Name:WHITTAKER ORDANCE INC SUB OF WHITTAKER CORP

Address:2751 SAN JUAN RD

Box:148

City:HOLLISTER

State:CA

ZIP:95024

Country:US

Info Phone Num:408-637-5851

Emergency Phone Num:800-424-93

00 (CHEMTREC)

Preparer's Name:JIM HART

CAGE:10640

=== Contractor Identification ===

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 =====

Ingred Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH7070000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3/10 STEL

ACGIH TLV:5 MG/M3/10 STEL;9293

Ingred Name:AMMONIUM DICHROMATE (BICHROMATE) (SARA I

II)  
CAS:7789-09-5  
RTECS #:HX7650000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1PPM CRO3;CEILING  
ACGIH TLV:0.05 MG CR/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

Ingred Name:BARIUM DICHROMATE  
Other REC Limits:NONE RECOMMENDED

Ingred Name:MIXTURE OF NITROCELLULOSE AND RDX SMOKELESS POWDER  
Other REC Limits:NONE RECOMMENDED

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

Route  
s of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: CONTACT MAY IRRITATE SKIN AND EYES. INHALATION OF VAPORS FROM COMBUSTION MAY CAUSE REPIRATORY IRRITATION.  
Explanation of Carcinogenicity:CHROMIUM IS LISTED AS A KNOWN CARCINOGEN BY IARC AND NTP.  
Effects of Overexposure:INHALED: COUGHING, WHEEZING, SHORTNESS OF BREATH. SKIN: REDNESS, ITCHING. EYES: REDNESS, TEARING, BLURRED VISION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALED: REMOVE TO FRESH AIR. GIVE RESPIRATORY ASSISTANCE AS NEEDED. SEE DOCTOR. SKIN: WASH WITH SOAP AND WATER. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES. SEE DOCTOR.

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

Autoignition Temp:Autoignition Temp Text:310F  
Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING

FIRE.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND BUNKER GEAR. FOLLOW DOT RESPONSE GUIDE #50 FOR EXPLOSIVES. EVACUATE ALL PERSONNEL 1500 FEET IN ALL DIRECTIONS.  
Unusual Fire/Explosion Hazard:MODERATE FIRE HAZARD. DO NOT STORE WITH HIGH EXPLOSIVES. KEEP AWAY FROM FIRE.

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

Spill Release Procedures:IF UNIT BECOMES DAMAGED SO AS TO EXPOSE INTERNAL EXPLOSIVES, CONTACT WHTAKER ORDNANCE ENGINEER S FOR GUIDANCE (408-637-5851).  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:AUTHORIZE HANDLING ONLY BY TRAINED, QUALIFIED PERSONNEL. HANDLE AND TRANSPORT AS A CLASS C EXPLOSIVE (UN/DOD, CLASS 1, DIV 4).  
Other Precautions:KEEP UNIT SHUNTED UNTIL CONNECTION TO CIRCUITRY. NEVER ATTEMPT TO DISASSEMBLE, MACHINE OR OTHERWISE MODIFY UNITS OR PHYSICAL INJURY MAY RESULT.

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

Respiratory Protection:IF EXPOSED TO COMBUSTION PRODUCTS IN A CONFINED AREA; USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE IN ACCORDANCE WITH 29 CFR 1910.134.  
Ventilation:USE LOCAL EXHAUST VENTED TO OUTSIDE ATMOSPHERE OR, BE IN OPEN/OUTDOORS AREA.  
Protective Gloves:NONE NORMALLY REQUIRED.  
Eye Protection:SAFETY GLASSES  
Other Protective Equipment:FLAME RETARDANT,COTTON CLOTHING;CONDUCTIVE FOOTWEAR RECOMMENDED WHEN HANDLING UNITS.WEAR HEARING PROTECTION DURING USE.  
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. NO SMOKING IN AREA OF USE.  
Supplemental Safety and Health

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

HCC:E2  
Net Prop Wt for Ammo:170MG  
Appearance and Odor:A SEALED CARTRIDGE CONTAINING EXPLOSIVES

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

Stability Indicator/Materials to Avoid:YES

FLAMMABLE LIQUIDS, STRONG MINERAL ACIDS, OR STRONG ALKALIS.

Stability Condition to Avoid: AVOID FLAMES, HIGH TEMPERATURES,

ELECTROSTATIC DISCHARGE, IMPACT, ELECTRICAL CURRENT, OR RF ENERGY.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE,

HYDROGEN CHLORIDE, AND OXIDES OF NITROGEN, CHROMIUM, BARIUM AND ZIRCONIUM.

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULA

TIONS DEALING WITH CLASS C EXPLOSIVES. MANUFACTURER

RECOMMENDS THERMAL TREATMENT AT AN APPROVED, PERMITTED FACILITY.

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