

WHITTAKER ORDNANCE -- CABLE CUTTER,4588 -- 1377-01-084-2455

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

Product ID:CABLE CUTTER,4588

MSDS Date:10/25/1991

FSC:1377

NIIN:01-084-2455

MSDS Number: BPZTS

=== 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-TEL,INC)

Prep

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 =====

Ingredient Name:ZIRCONIUM

CAS:7440-67-7

RTECS #:ZH70

70000  
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

Ingred Name:BARIUM  
M 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 Identification =====

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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  
HUMANS & 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 Measures =====

Firs

t 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.

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

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 FOR  
(SEE S  
UP)

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:MOD FIRE HAZ.UNITS,WHEN  
ACTIVATED,GENERALLY CONTAIN HAZ COMBUST PROD/FRAGMENTS UNDER NORMAL  
USE.IF FIRE SITUATIONS RELEASE OF TOXIC SMOKE,FLAME MAY BE  
POSSIBLE.

===== 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,MACH  
INE OR MODIFY UNITS OR PHYSICAL INJURY  
MAY RESULT.TEST FIRE UNITS ONLY IN LOCATION ISOLATED FROM PERSONNEL  
& VENTED TO OUTSIDE WORK AREA. (SEE SUPP DATA)

===== 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:LOCA  
L EXHAUST TO OUTSIDE ATMOSPHERE.  
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 EXPLO WT:2.05 G/UNIT.EXTING MEDIA:SURROUNDING FIRE CONDTNS IF  
SAFE.EXPLAN OF CARCIN:(NT  
P,1991).CR(VI):KNOWN TO CAUSE CANCER (CAL  
PROP 65,1987).CERTAIN WATER INSOL CR(VI) CMPDS:ACGIH A1=KNOWN  
HUMAN CARCIN (1993).OTHER PREC:AVOID PLACING FINGERS IN OPENING TO  
KNIFE BLADE WHEN HNDL UNITS TO PREVENT AMPUTATION.

===== 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 &

Reference:NOT KNOWN

Solubility in Water:NOT KNOWN

Appearance and Odor:MANUFACTURED ARTICLE.SEALED ELECTROEXPLOSIVE 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:GASES,FUMES OR RESIDUES:CARBON  
MONOXIDE,CAR

BON DIOXIDE,NITROGEN OXIDES,NH\*3,HCL,OXIDES OF  
ZIRCONIUM,BARIUM,CHROMIUM.

Conditions to Avoid Polymerization: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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