

FEDERAL STANDARD CORP -- ACCUMULATOR ASSEMBLY,ORDNANCE # 7974982 --  
3040-00-508-0126

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Product Identification  
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Product ID:ACCUMULATOR ASSEMBLY,ORDNANCE # 7974982

MSDS Date:03/06/1991

FSC:3040

NIIN:00-508-0126

MSDS Number: BPQTR

=== Responsible Party ===

Company Name:FEDERAL STANDARD CORP

Address:2600 E 25TH ST

City:MINNEAPOLIS

State:MN

ZIP:55406

Country:US

Info Phone Num:612-721-5063

Emer

gency Phone Num:612-721-5063

Preparer's Name:MARK WESTROM

CAGE:2R925

=== Contractor Identification ===

Company Name:FEDERAL STANDARD CORP

Address:2600 E 25TH ST

Box:City:MINNEAPOLIS

State:MN

ZIP:55406

Country:US

Phone:612-721-5063

CAGE:2R925

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Composition/Information on Ingredients  
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Ingred Name:ALUMINUM ALLOYS:SERIES 2024 & 6061.MP:

900-1200F,482-649C.SPEC GRAV:2.5-2.9 (H\*2O=1).OSHA PEL 5 MG(AL)/M3  
RESP FRACTION.

Other REC Limits:NOT KNOWN

OSHA PEL:15 MG(AL)/

M3 T DUST  
ACGIH TLV:10 MG(AL)/M3 DUST

Ingred Name:ALUMINUM BASE METAL=AL. ALLOY ELEMENTS= COBALT, COPPER,  
IRON, LEAD, MAGNESIUM, MANGANESE, SILICON, TIN & ZINC  
Other REC Limits:NONE RECOMMENDED

Ingred Name:STAINLESS STEEL.MELTING POINT: 2700F,1482C.SPECIFIC  
GRAVITY: 8 (WATER=1).  
Other REC Limits:NOT KNOWN  
OSHA PEL:NOT KNOWN  
ACGIH TLV:NOT KNOWN

Ingred Name:STEEL BASE METAL=IRON. ALLOY ELEMENTS=  
C,AL,S,P,MN,CU,MO,SILICON,CHROMIUM,NICKEL,SELENIUM,COLUMBIUM,TANTAL  
UM,TITANIUM  
Oth  
er REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NOT KNOWN  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:WELDING,BURNING,GRINDING,MACHINING  
RESULTING IN TEMP ABOVE MELTING POINT MAY GENERATE AIRBORNE  
PARTICULATE W/ METAL FUME FEVER.STEEL PRODUCTS IN NATURAL STATE DO  
NOT PRESENT INHAL/INGEST/CONTACT HEALT H HAZARDS.S

TANDARD

OPERATIONS W/ ALUMINUM PRESENT LOW HEALTH RISK BY INHAL & ARE  
CONSIDERED A NUISANCE DUST.  
Explanation of Carcinogenicity:CHROMIUM AND CR COMPOUNDS ARE LISTED IN  
IARC & NTP. NICKEL IS HUMAN CARC (ACGIH 1992-1993 LIST OF INTENDED  
CHANGES)  
Effects of Overexposure:EYES:FUMES/DUST OF STAINLESS STEEL MAY  
IRRITATE. INHALATION:EXCESS INHALATION OF METALLIC DUSTS OF  
STAINLESS STEEL MAY RESULT IN IRRITATION OF NOSE,THROAT.  
Medical Cond Aggravated by Exposure:DERMATITIS AND  
PULMONARY DISEASE OR  
DISORDERS. LEAD IS KNOWN TO CAUSE DEVELOPMENTAL AND REPRODUCTIVE  
TOXICITY (CALIFORNIA PROP. 65, 1987)

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

First Aid:EYES:IMMEDIATELY FLUSH WELL WITH RUNNING WATER FOR AT LEAST  
15 MINUTES TO REMOVE PARTICULATE.GET MEDICAL ATTENTION. SKIN:REMOVE  
CLOTHING & WASH SKIN THOROUGHLY WITH SOAP AND WATER.IF IRRITATION  
PERSIS TS,SEEK MEDICAL ATTENTION. INGESTION:IFSIGNIFICAN AMOUNT OF  
METAL IS I

INGESTED,SEEK MEDICAL ATTENTION. INHALATION:REMOVE TO FRESH AIR.IF CONDITION CONTINUES,CONSULT PHYSICIAN.

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

Extinguishing Media:DRY POWDER OR SAND.DO NOT USE WATER OR HALOGEN ON DUST FIRES.

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS (SCBA) AND FULL TURNOUT GEAR .

Unusual Fire/Explosion Hazard:ACCUMULATOR ASSEMBLY CAN OPERATE AT VERY HIGH PRESS.IF AIR NOT PURGED FROM ACCUMULATOR DURING HO

OK-UP/HOOK-UP INCORRECT,RUPTURE/EXPLOSION IS POSSIBLE.(SEE SUPP)

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

Neutralizing Agent:NOT KNOWN

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

Handling and Storage Precautions:AVOID SERIOUS INJURY:PURGE ALL AIR BEFORE PRESS APPLIC DURING HOOKUP,DO NOT DISCONNECT UNTIL INTERNAL PRESS=0,IF LEAK OCCURS,IMMED SHUT DOWN (SEE SUP)

Other Precautions:KEEP AREA WELL VENTILATED.AVOID BREATHING METAL DUST

.ALUMINUM DOES NOT CHANGE COLOR DURING HEATING-USE CAUTION TO AVOID BURNS.STRESS RELIEVE ALUMINUM IGNOTS DURING SAWING TO PREVENT EXPLOSION.

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

Respiratory Protection:IF EXPOSURE LIMITS ARE REACHED OR EXCEEDED USE NIOSH APPROVED RESPIRATOR.

Ventilation:KEEP AREA WELL VENTILATED.

Protective Gloves:YES

Eye Protection:CHEM SFTY GOGG .FSHLD AS APPROP.

Other Protective Equipment:APPROPRIATE PROTECTIVE CLOTHING AS NEEDED.

W

ork Hygienic Practices:USE GOOD HOUSEKEEPING PRACTICES TO PREVENT ACCUMULATION OF DUST AND TO KEEP AIRBORNE DUST TO A MINIMUM.

Supplemental Safety and Health

FIRE/EXPLO HAZ:ALUMINUM CHIPS/DUST MAY IGNITE/EXPLODE READILY.MATLS TO AVOID:VIOLENT EXPLO.MOLTEN AL MAY EXPLODE ON CONTACT WITH WATER/CERTAIN METAL OXIDES.HNDLG/STOR PREC:SYSTEM.BEFORE STORING RELEAS E ALL PRESS ON GAS SIDE.POINT HIGH PRESS VALVE (GAS) END AWAY FROM ALL PERSONNEL WHEN DEPRESSURIZING USING VALVE CORE.

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

Melt/Freeze Pt:M.P/F.P Text:SEE ING 1,2  
Decomp Temp:Decomp Text:NOT KNOWN  
Vapor Density:NOT KNOWN  
Spec Gravity:SEE ING 1,2  
Evaporation Rate & Reference:NOT KNOWN  
Solubility in Water:INSOLUBLE  
Appearance and Odor:SOLID WITH METALLIC APPEARANCE AND NO ODOR.

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS.AL REACTS W/ HALOGEN ACIDS,NAOH,BROMATES,IODATES,AMMONIUM  
NITRATE,STRONG OXIDIZERS W/ POSSIBLE (SEE SUPP)  
Stability Condition to Avoid:DAMP ALUMINUM DUST MAY HEAT SPONTANEOUSLY  
RELEASING HYDROGEN TO FORM EXPLOSIVE AIR MIXTURES.  
Hazardous Decomposition Products:STAINLESS STEEL:METALLIC  
OXIDES.ALUMINUM:WELDING MAY GENERATE CO,CO\*2,OZONE,NITROGEN  
OXIDES,INFRARED/ULTRAVIOLET RADIA.

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

Waste Disposal Methods:DISPOSAL MUST BE IAW FED,STATE,& LOCAL  
REGS.COORDINATE W/ SUPPORTING INSTALLATION/MACOM ENVIRONMENTAL  
OFFICE PRIOR TO DISP .STAINLESS STEEL:TREAT AS A DUST.ALUMINUM:TEST  
USED/UNUSED PRODUCT TO DETERMINE HAZARD STATUS & DISPOSAL  
REQUIREMENTS.

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