

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

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

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

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rgency 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

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

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
Other 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 HEALTH HAZARDS.

STANDARD

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
PERSISTS,SEEK MEDICAL ATTENTION. INGESTION:IF SIGNIFICANT AMOUNT OF
METAL IS

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 HOOK-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 DUS

T.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.

Work 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.

===== 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,IOD
ATES,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.COORDI
NATE 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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