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Product ID:PWA-694 MSDS Date:01/01/1987 FSC:3439 NIIN:00-015-3776 MSDS Number: BCVJS === Responsible Party === **Company Name: POLYMET CORPORATION** Emergency Phone Num: (513)874-3586 CAGE: JO817 === Contractor Identification === Company Name: POLYMET CORP Address:4505 MULHAUSER RD Box:City:HAMILTON State:OH ZIP:45011 С ountry:US CAGE:55596 **Company Name: POLYMET CORPORATION** CAGE: JO817

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 43.0% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 28% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:TUNGSTEN CAS:7440-33-7 RTECS #:YO7175000 Fraction by Wt: 19.5% OSHA PEL:5 MG/M3/ 10 STEL ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 5% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name:IRON,CAS #7439-89-6 CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 1% ACGIH TLV:5MG/CUM(MFR)

Effects of Overexposure:METALLIC TASTE,NAUSEA,TIGHTNESS OF CHEST,FEVER,DIZZINESS.EYE,NOSE,THROAT DRYNESS AND IRRITATION.

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION.IF UNCONSCIOUS,GIVE OXYGEN.IF NOT BREATHING GIVE CPR.EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.

Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE Fire Fighting Procedures:IF IN PWDR FORM,USE DRY SAND,DRY GRAPHITE,CLASS D EXTINGUISH Unusual Fire/Explosi on Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLE PRODUCTS.

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN SUITABLE DOT APPROVED DISPOSAL CONTAINER-IF IN POWDER FORM USE HIGH EFFICIENCY PARTICULATE FILTER SYSTEM.

Other Precautions: TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES. MONITOR AIR TO ENSURE ACC

EPTABLE EXPOSURES.AVOID ELECTRICAL SHOCK BY MAINTAINING DRY WORK AREA.
======== Exposure Controls/Personal Protection ====================================
Respiratory Protection:FUME RESP.OR AIR SUPPLIED RESP.IN CONFINED SPACES. Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV. Protective Gloves:WELDER'S GLOVES Eye Protection:FACE SHLD W/FILTER LENS Other Protective Equipment:SUBST.DK.CLOTH,ARM PROTECTOR,APRON,HAT,SHOULDR.PROTECTION. Supplemental Safety and Health OTHER INGRED:MN 0.5%;SI 0.7%;VA 1.0% ;CARBON 0.90%;B 0.05%/NEW FORMULATION SHOWN ON P/N IND B/UNDATED MSDS.
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HCC:N1 Spec Gravity:8.75 Appearance and Odor:SOLID-SILVER GRAY COLOR-NO ODOR
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Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid:AVOID CONTACT W.MINERAL ACIDS AND OXIDIZING AGENTS. Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES,CO,NO*2,O *3.
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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS.

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