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Product ID:TPG-324/KC850 MSDS Date:01/01/1987 FSC:3455 NIIN:01-184-9208 **MSDS Number: BGQBD** === Responsible Party === Company Name: KENNAMETAL INC. Emergency Phone Num:800-424-9300 CAGE:HO324 === Contractor Identification === Company Name: KENNAMETAL INC METAL CUTTING DIV Address:4610 BEIDLER RD Box:City:WILLOUGHB Y State:OH ZIP:44094-4603 Country:US CAGE:01517 Company Name: KENNAMETAL INC. Box:231 CAGE:HO324 Ingred Name:TUNGSTEN CARBIDE (CAS #12070-12-1) (PEL-5 MG/CUM, MFR) 30.0-97.7% ACGIH TLV:5 MG/CUM, AS W Ingred Name:COBALT (SARA III) CAS:7440-48-4 RTECS #:GF8750000 Fraction by Wt: 2-25% OSHA PEL:0.1 MG/M3;AS CO ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:TANTALUM CARBIDE (CAS # 12070-06-3) (PEL-5 MG/CUM, MFR) 0.1-15.0 % ACGIH TLV:5 MG/CUM (MFR)

Ingred Name:TITANIUM CARBIDE (CAS # 12070-08-5) (PEL-5 MG/CUM, MFR) 0.1-15.0%

Ingred Name:NIOBIUM CARBIDE (CAS #12069-94-2)(PEL-5 MG/CUM, MFR) 0.1-15.0% ACGIH TLV:5 MG/CUM (MFR)

Health Hazards Acute and Chronic:MAY CAUSE TEMPORARY OR PERMANENT RESPIRATORY DISEASE. PERMANENT RESPIRATORY DISEASE CAN LEAD TO DISABILITY OR DEATH. NONE OF THE COMPONENTS OF THIS MATERIAL HAS BEEN IDE

NTIFIED AS KNOWN OR SUSPECTED C ARCINOGENS.

Effects of Overexposure:OVEREXPOSURE TO THIS MATERIAL IN THE FORM OF METALLURGICAL POWDER,DUST OR MIST FROM GRINDING OR SWEEPING IS HAZARDOUS TO HEALTH. MAY CAUSE EYE,SKIN & MUCOUS MEMBRANE IRRITATION.

Medical Cond Aggravated by Exposure:CERTAIN PULMONARY & SKIN CONDITIONS MAY BE AGGRAVATED BY EXPOSURE.

First Aid:IN ALL CASES,GET MED ATTN IMMED.INHAL:REMOVE FROM EXP TO

FRESH AIR IMMED.STOP BRTHING-GIVE ARTIFCL RESP.KEEP WARM,AT REST.SKIN:REMOVE CONTAM CLOTHES,SHOES IMMED.WASH EXP AREA W/SOAP/MILD DETERGENT,LRG AMTS H*20 15-20 MIN.EYE:WASH IMMED W/LRG AMTS H*20 15-20 MIN.INGEST:IF CONSCIOUS,IMMED GIVE LRG AMTS H*20,INDUCE VOMITING

Extinguishing Media:LOCALIZED POWDER FIRE-DRY SAND,DRY DOLOMITE,NACL OR SODA ASH

Fire Fighting Procedures: MOVE CNTNR IF POSS.COOL FIRE EXP CNTNR

W/H*2O.LRG FIRE-USE UNMANNED HOSE HOLDR/MONITR NOZZ;ELSE W/DRAW,LET(SEE SUPP DATA)

Unusual Fire/Explosion Hazard: FINELY DIVIDED TUNGSTEN CARBIDE POWDR/GRINDING DUST EXPECT TO BE FIRE/EXPLO HAZ WHEN EXP TO HIGH

TEMP OR (SEE SUPP DATA)

Spill Release Procedures:SWEEP UP W/MINIMUM DUST GENERATION & PLACE INTO SUITABLE CLEAN, DRY CNTNRS FOR LATER DISPOSAL OR RECLAMATION. RESIDUE SHOULD BE CLEANED UP USING A HIGH-EFFICIENCY PARTICULATE FILTER VACUUM OR WET CLEAN UP. USE APPROPRIATE RESPIRATORY PROTECTION.

Handling and Storage Precautions:AVOID DISPERSN OF DUST IN AIR.FINELY DIVIDED PARTICLES,DUST,FUMES POSS FLAMMABLE/EXPLOSIVE.KEEP FROM SPARK/IGNITN SOURCE.STORE IN CLEAN,DRY,COOL AREA. Other Precautions:WASH HANDS AFT HANDLE,BEFORE EAT/SMOKE.DONT SHAKE

CLOTHES, RAGS, OTHR ITEMS TO REMOVE DUST. REMOVE DUST BY

WASHING/VACUUMING.PERIODIC MEDICAL EXAMS RECM FOR PERSONS REGULARLY EXPOSED TO DUST/MIST

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

Ventilation:LOCAL EXHAUST/GEN DILUATION TO KEEP EXPOS LEVELS