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CARPENTER TECHNOLOGY CORPORATION -- TYPE 416 HF ANL PKL, ASTM-A-582-80 9510-00-222-4999

Product ID:TYPE 416 HF ANL PKL, ASTM-A-582-80 MSDS Date:01/01/1987 FSC:9510 NIIN:00-222-4999 MSDS Number: BDJZY === Responsible Party === Company Name: CARPENTER TECHNOLOGY CORPORATION Emergency Phone Num: (215) 371-2000 CAGE:71321 === Contractor Identification === Company Na me:CARPENTER TECHNOLOGY CORP Address:101 W BERN ST Box:14662 City:READING State:PA ZIP:19612-4662 Country:US Phone:610-208-2134 / 610-208-2457/2457 CAGE:71321

Ingred Name:IRON OXIDE CAS:1309-37-1 RTECS #:NO7400000 Fraction by Wt: 84.0% OSHA PEL:10 MG/M3 (FE) ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 0.35% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name

:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 1.25% OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 13.0% OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9192 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Effects of Overexposure:NONE CONSIDERED HAZ IN SOLID STATE;HOWEVER,METALLIC FUMES/DUST MAY CAUSE RESP,EYES,LUNG PROBLEMS.

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First Aid:INHAL:MOVE TO FRESH AIR.GET MED ATTN;SKIN:WASH W/WATER & MILD DETERGENT.CONSULT A PHYSICIAN;EYES:FLUSH WITH PLENTY OF WATER.GET MED HELP;INGESTION:WHILE INGESTION OF LG ENOUGH QTY TO CAUSE HEALTH EFFE CTS IS UNLIKELY,CONSULT A DR IF IT OCCURS.

Flash Point:NONE

Extinguishing Media: EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE Fire F

ighting Procedures:WEAR SELF-CNTD BRTHG,APP H\*20 SPRAY TO COOL CONTR.

Unusual Fire/Explosion Hazard:NONE NOTED BY MANUFACTURER.

Spill Release Procedures: PRODUCT IS SOLID METAL.NO POTENTIAL FOR SPILL OR LEAK. HOWEVER IF SMALL METALLIC PIECES ARE SPILLED, COLLECT THOSE & REUSE.

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENTILATED A  REA. PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED
Other Precautions:FERROCHROME ALLOYS HAVE BEEN ASSOCIATED W/LUNG CHGS.CHROMIUM,COBALT-CHROMIUM ALLOYS,AND NICKEL HAVE BEEN IDENTIFIED AS CARCINOGEN.AVOID BREATHING DUST/FMES DURING GRINDING/WELDING PROCESSES

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

Respiratory Protection: IF FME OR DUST IS RELEASED, USE NIOSH APPRVD RESP Ventilation: FOR DUST/FUME, USE LOCAL & GEN ERAL VENTILATION TO KEEP 7.5 Solubility in Water: NEGLIGIBLE Appearance and Odor: SOLID METAL, ODORLESS Percent Volatiles by Volume: N/

Stability Indicator/Materials to Avoid:YES NONE Stability Condition to Avoid:NOT KNOWN Hazardous Decomposition Products:NONE EXPECTED

Waste Disposal Methods: IN THE EVENT OF METAL OR METAL PIECES ARE TO BE DISPOSED, CONSULT L OCAL AUTHORITIES FOR DISPOSAL OR SHIP TO RECYCLING FACILITIES.

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